

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21HS76S43830713

To  
MEHUL PANJA  
AE/D-33/7/2 NORTH 24 PARGANAS  
WEST BENGAL - 700059  
PH. NO :8017754710



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**MEHUL PANJA**

for successfully completing the course

## Soft Skills

with a consolidated score of **58** %

Online Assignments	23.13/25	Proctored Exam	34.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **7293**

**Prof. V. C. Srivastava**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jul-Oct 2021  
(12 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



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Roll No: NPTEL21HS76S43830713

To  
MEHUL PANJA  
AE/D-33/7/2 NORTH 24 PARGANAS  
WEST BENGAL - 700059  
PH. NO :8017754710



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**MEHUL PANJA**

for successfully completing the course

## Soft Skills

with a consolidated score of **58** %

Online Assignments	23.13/25	Proctored Exam	34.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **7293**

**Prof. V. C. Srivastava**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jul-Oct 2021  
(12 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22MG50S43702707

To  
ANKIT SHAW  
10/2/1 NASKAR PARA ROAD  
GHUSURI  
HOWRAH  
WEST BENGAL - 711107  
PH. NO :9330509853



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**ANKIT SHAW**

for successfully completing the course

**International Marketing**

with a consolidated score of **91** %

Online Assignments	25/25	Proctored Exam	66/75
--------------------	-------	----------------	-------

Total number of candidates certified in this course: **640**

Prof. Jayanta Mukhopadhyay  
Dean Outreach  
IIT Kharagpur

Feb-Apr 2022  
(8 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur





This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CS45S23701826

To  
ABHISHEK KUMAR  
H/O RAM VIJAY SINGH , NEAR MANGLA BHAVAN  
SHANTIPATH,SARISTABAD ,PATNA-1  
PATNA  
BIHAR - 800001  
PH. NO :8102867603



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**ABHISHEK KUMAR**

for successfully completing the course

## Problem Solving through Programming in C

with a consolidated score of **61** %

Online Assignments	21/25	Programming Exam	12.5/25	Proctored Exam	27/50
--------------------	-------	------------------	---------	----------------	-------

Total number of candidates certified in this course: **2233**

Prof. Jayanta Mukhopadhyay  
Dean Outreach  
IIT Kharagpur

Jan-Apr 2022  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur





This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS62S13750003

To  
NILADRI BISWAS  
VILL PO MADARPUR VIA GARIFA  
NAIHATI NORTH 24 PARGANAS  
NAIHATI  
WEST BENGAL - 743166  
PH. NO :8444997803



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**NILADRI BISWAS**

for successfully completing the course

## Cloud Computing

with a consolidated score of **55** %

Online Assignments	22.54/25	Proctored Exam	32.81/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **3189**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Aug-Oct 2021  
(8 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22HS05S43751383

To  
JOYSREE SAHA  
82,SHYAM BOSE ROAD,ALIPORE  
82,SHYAM BOSE ROAD, ALIPORE  
KOLKATA  
WEST BENGAL - 700027  
PH. NO :9903309721



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:1

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**JOYSREE SAHA**

for successfully completing the course

**Effective Writing**

with a consolidated score of **64** %

Online Assignments	20/25	Proctored Exam	43.5/75
--------------------	-------	----------------	---------

Total number of candidates certified in this course: **3816**

**Prof. Sanjeev Manhas**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jan-Feb 2022  
(4 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS75S23831018  
To  
MEHUL PANJA  
AE/D-33/7/2 NORTH 24 PARGANAS  
WEST BENGAL - 700059  
PH. NO :8017754710

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**MEHUL PANJA**

for successfully completing the course

**The Joy of Computing using Python**

with a consolidated score of **72** %

Online Assignments	24.94/25	Programming Exam	25/25	Proctored Exam	22/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **4694**

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

Jul-Oct 2021  
(12 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras





This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21HS76S43830713

To  
MEHUL PANJA  
AE/D-33/7/2 NORTH 24 PARGANAS  
WEST BENGAL - 700059  
PH. NO :8017754710



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**MEHUL PANJA**

for successfully completing the course

## Soft Skills

with a consolidated score of **58** %

Online Assignments	23.13/25	Proctored Exam	34.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **7293**

**Prof. V. C. Srivastava**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jul-Oct 2021  
(12 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CS42S43702082

To  
MEHUL PANJA  
AE/D-33/7/2 NORTH 24 PARGANAS  
WEST BENGAL - 700059  
PH. NO :8017754710



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**MEHUL PANJA**

for successfully completing the course

## An Introduction to Programming through C++

with a consolidated score of **68** %

Online Assignments	23.43/25	Programming Assignment	24.57/25	Proctored Exam	20/50
--------------------	----------	------------------------	----------	----------------	-------

Total number of candidates certified in this course: **2183**

Jan-Apr 2022  
(12 week course)

  
**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



Roll No:NPTEL22CS42S43702082

To validate and check scores: <https://nptel.ac.in/noc>

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22MG50S43702707

To  
ANKIT SHAW  
10/2/1 NASKAR PARA ROAD  
GHUSURI  
HOWRAH  
WEST BENGAL - 711107  
PH. NO :9330509853



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**ANKIT SHAW**

for successfully completing the course

**International Marketing**

with a consolidated score of **91** %

Online Assignments	25/25	Proctored Exam	66/75
--------------------	-------	----------------	-------

Total number of candidates certified in this course: **640**

Prof. Jayanta Mukhopadhyay  
Dean Outreach  
IIT Kharagpur

Feb-Apr 2022  
(8 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No:NPTEL22MG50S43702707

To validate and check scores: <https://nptel.ac.in/noc>



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CE11S23703172

To  
SUBHADEEP MONDAL  
NEAR SHIBANANDA ASHRAM  
P.S. BELDA, PASCHIM MEDINIPUR  
BELDA  
WEST BENGAL - 721424  
PH. NO :7076775280



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SUBHADEEP MONDAL**

for successfully completing the course

## Geosynthetics and Reinforced Soil Structures

with a consolidated score of **63** %

Online Assignments	22.85/25	Proctored Exam	39.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **138**

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

Jan-Apr 2022  
(12 week course)

*Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No:NPTEL22CE11S23703172

To validate and check scores: <https://nptel.ac.in/noc>

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS75S24370120

To  
SUPRIYO SARKAR  
DEBPARA TEA ESTATE  
BANARHAT  
JALPAIGURI  
WEST BENGAL - 735202  
PH. NO :8001711202



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SUPRIYO SARKAR**

for successfully completing the course

**The Joy of Computing using Python**

with a consolidated score of **70** %

Online Assignments	25/25	Programming Exam	25/25	Proctored Exam	20/50
--------------------	-------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **4694**

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

Jul-Oct 2021  
(12 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No:NPTEL21CS75S24370120

To validate and check scores: <https://nptel.ac.in/noc>

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21HS76S44370192

To  
SUPRIYO SARKAR  
DEBPARA TEA ESTATE  
BANARHAT  
JALPAIGURI  
WEST BENGAL - 735202  
PH. NO :8001711202



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SUPRIYO SARKAR**

for successfully completing the course

## Soft Skills

with a consolidated score of **55** %

Online Assignments	23.44/25	Proctored Exam	31.88/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **7293**

**Prof. V. C. Srivastava**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jul-Oct 2021  
(12 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee





This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS69S13700044

To  
ANKIT KUMAR DAS  
80, KUNJA BASU ROAD  
PO-KANCHRAPARA, PS-BIZPUR  
BIZPUR  
WEST BENGAL - 743145  
PH. NO :8777019315



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**ANKIT KUMAR DAS**

for successfully completing the course

**Data Science for Engineers**

with a consolidated score of **63** %

Online Assignments	22.42/25	Proctored Exam	40.1/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **2140**

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

Jul-Sep 2021  
(8 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL21CS69S13700044

To validate and check scores: <https://nptel.ac.in/noc>



Certificate no: UC-a85ce2bb-0ed8-4497-9db6-9d60492a0578  
Certificate url: [ude.my/UC-a85ce2bb-0ed8-4497-9db6-9d60492a0578](https://udemy.com/UC-a85ce2bb-0ed8-4497-9db6-9d60492a0578)  
Reference Number: 0004

CERTIFICATE OF COMPLETION

# Python for beginners - Learn all the basics of python

Instructors **Yassin Marco**

**Bijay Gorai**

Date **May 31, 2022**

Length **5 total hours**

Refer La  
Lab Ado  
Test Name  
lood Group  
ethod: Tube A1  
Typing\*  
thod: Tube Ag1

COSMIC CAB 2021/416

NO. :



AN ISO 9001: 2015 CERTIFIED ORGANIZATION



77/79 SREE ARABINDA ROAD, HOWRAH-711106

Affiliated to  
West Bengal State Council of Technical Education  
(Govt. of West Bengal)

Certified that..... NARENDRA KUMAR SHARMA

Son / Daughter of..... LATE PAWAN SHARMA..... has

Successfully completed the training of 5 months duration in the trade of

Certificate Course in Autocad (Mechanical)..... HOWRAH  
..... from our ..... centre with

Grade..... " E " (91%)..... From March'2021 to July'2021  
..... conducted during the period .....

having satisfied our tutors in the following subjects..... Autocad Mechanical (2D & 3D)

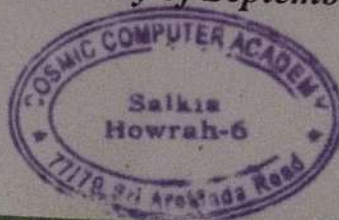
Designing & Drawing of Various machine parts in 2D. Top, Front and Perspective Views of

.....  
machine parts in 3D and Project Work.  
.....

*Certificate*

is Awarded On Dated  
29th day of September, 2021

*Rina Pal*  
Co-Ordinator



*[Signature]*  
Principal

\* Grade Report Attached



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS62S13750003

To  
NILADRI BISWAS  
VILL PO MADARPUR VIA GARIFA  
NAIHATI NORTH 24 PARGANAS  
NAIHATI  
WEST BENGAL - 743166  
PH. NO :8444997803



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**NILADRI BISWAS**

for successfully completing the course

**Cloud Computing**

with a consolidated score of **55** %

Online Assignments	22.54/25	Proctored Exam	32.81/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **3189**

**Prof. G P Raja Sekhar**  
Dean, Continuing Education  
IIT Kharagpur

Aug-Oct 2021  
(8 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



# SMART COMMERCE CERTIFICATE

This Certificate accredits that

Certificate No.: **1892618**

*Pritam Das*

has successfully completed: **Smart** COMMERCE

**APLL**  
CERTIFIED

Learning Solutions

training from our Shyamnagar center in  
the grade(\*) of Pass.

Program Start Date: 1st Oct 2019.

Program End Date: 1st Jan 2021.

\*Program Duration 6 months, completion delayed due to covid-19.



**\*22-04-2021**



*[Signature]*

Coordinator

*[Signature]*

Academic Head

**Issue Date :**



Issued by Asian Pacific Learning Leverage Pvt Limited, CIN No.: U80302UR2012PTC007730 under Companies Act 1956  
An ISO 9001 : 2008 Certified Company & Registration No.: IHQMS/1331/28-08-2013

# Smart **COMMERCE**

Duration : 144 hrs or 6 Months

- IT Tools & Information Technologies
- Operating System Windows
- MS Office Word
- MS Office Excel
- MS Office Power Point
- MS Office Access
- Introduction to Internet & Email
- Business Accounting
- Tally with ERP
- PF / ESI
- Ecommerce / Digital Marketing
- Mcommerce
- Demonetization
- Different Digital Applications
- Project

## \* Grading Detail

< 60% qualifies for Pass

≥ 60% but < 70% qualifies for Credit

≥ 70% qualifies for Distinction



# **M** UNIVERSITY OF MICHIGAN

May 31, 2022

## TANMOY GHOSHAL

has successfully completed

### Programming for Everybody (Getting Started with Python)

an online non-credit course authorized by University of Michigan and offered through Coursera



Charles Severance  
Clinical Professor, School of Information  
University of Michigan

COURSE  
CERTIFICATE



Verify at:  
<https://coursera.org/verify/EWWUUMY2L28T>

Coursera has confirmed the identity of this individual and their participation in the course.



Jul 25, 2021

**Pratistha Pramanik**

has successfully completed

**English for Career Development**

an online non-credit course authorized by University of Pennsylvania and offered through Coursera

*Brian Mc Manus*

Brian McManus  
Language Specialist  
English Language Programs  
University of Pennsylvania

*Robyn Turner*

Robyn Turner  
Senior Language Specialist  
English Language Programs

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/8V444LEZT8XP](https://coursera.org/verify/8V444LEZT8XP)

Coursera has confirmed the identity of this individual and their participation in the course.

The online course named in this certificate may draw on material from courses taught on-campus, but it is not equivalent to an on-campus course. Participation in this online course does not constitute enrollment at the University of Pennsylvania. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.



**4TU** Centre for Ethics  
and Technology

Jul 23, 2021

# Pratistha Pramanik

has successfully completed

## Ethics, Technology and Engineering

an online non-credit course authorized by Eindhoven University of Technology and  
4TU.Ethics and offered through Coursera

Lambert Royackers  
Associate Professor  
Eindhoven University of Technology

### COURSE CERTIFICATE



Verify at [coursera.org/verify/KUVLCTD9S9W9](https://coursera.org/verify/KUVLCTD9S9W9)  
Coursera has confirmed the identity of this individual and their  
participation in the course.





Jul 7, 2021

Pratistha Pramanik

has successfully completed

Programming for Everybody (Getting Started with Python)

an online non-credit course authorized by University of Michigan and offered through Coursera

A handwritten signature in black ink, appearing to read 'Charles', followed by a horizontal line.

Charles Severance  
Clinical Professor, School of Information  
University of Michigan

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/M3QTUN25PQUR](https://coursera.org/verify/M3QTUN25PQUR)  
Coursera has confirmed the identity of this individual and their participation in the course.

# **M** UNIVERSITY OF MICHIGAN

Jul 25, 2021

## Sayan Roy

has successfully completed

### Programming for Everybody (Getting Started with Python)

an online non-credit course authorized by University of Michigan and offered through Coursera



Charles Severance  
Clinical Professor, School of Information  
University of Michigan

COURSE  
CERTIFICATE



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Coursera has confirmed the identity of this individual and their participation in the course.



## CERTIFICATE OF COMPLETION ONLINE COURSE

यह प्रमाणपत्र

MS. ARPITA GHOSH

को " सुदूर संवेदन एवं डिजिटल छवि विश्लेषण "

में ऑनलाइन पाठ्यक्रम पूर्ण करने पर प्रदान किया जाता है।

इस ऑनलाइन पाठ्यक्रम का आयोजन 16 अगस्त, 2021 से 10 सितंबर, 2021 ( कुल पाठ्यक्रम की अवधि = 25 घंटे 30 मिनट ) के दौरान किया गया।

(संबन्धित आई.आई.आर.एस. नोडल केंद्र- रिजेंट एजुकेशन एंड रिसर्च फाउंडेशन ग्रुप ऑफ इंस्टीट्यूशंस)

**THIS CERTIFICATE IS**

**AWARDED TO**

**MS. ARPITA GHOSH**

**ON COMPLETION OF THE ONLINE COURSE ON**

**"Remote Sensing & Digital Image Analysis"**

**THIS ONLINE COURSE WAS CONDUCTED DURING 16-08-2021 to 10-09-2021 ( Total course duration = 25 hrs & 30 minutes ).**

(Concerned IIRS Nodal Centre- Regent Education and Research Foundation Group of Institutions)

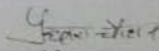
Online Exam Grade: **B**

Attendance: **100 %**

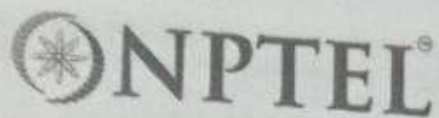
Date: 25-10-2021

Place: Dehradun

समन्वयक, विश्वविद्यालय/संस्थान  
Coordinator, University/ Institution

  
निदेशक/ Director  
आई.आई.आर.एस, देहरादून/ IIRS, Dehradun





# MARKSHEET

Name: RIYA DAS

DOB: 02-06-1998

Discipline	Year	Course Name	Marks		Total Marks (100%)	Status	Performance
			Assignment (25%)	Exam (75%)			
CS	2021	Introduction to Internet of Things	23.31	30	53	Pass	-

PROF. ANDREW THANGARAJ  
NPTEL COORDINATOR  
IIT MADRAS

# **M** UNIVERSITY OF MICHIGAN

Jul 25, 2021

## Ankita KarmaKar

has successfully completed

### Programming for Everybody (Getting Started with Python)

an online non-credit course authorized by University of Michigan and offered through Coursera



Charles Severance  
Clinical Professor, School of Information  
University of Michigan

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/VFQBU7SHKVWB](https://coursera.org/verify/VFQBU7SHKVWB)  
Coursera has confirmed the identity of this individual and their participation in the course.



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



May 30, 2022

**Jyotishree Mondal**

has successfully completed the online, non-credit Specialization

## Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington. Through a series of practical case studies, you gained applied experience in major areas of Machine Learning including Prediction, Classification, Clustering, and Information Retrieval. You learned to analyze large and complex datasets, create systems that adapt and improve over time, and build intelligent applications that can make predictions from data. Take pride in your accomplishment and welcome to the global Machine Learning community!

Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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Verify this certificate at:  
<https://coursera.org/verify/specialization/5ZDOEBEB4AJS>





THE HONG KONG  
UNIVERSITY OF SCIENCE  
AND TECHNOLOGY

Mar 8, 2022

**Shiva Mondal**

has successfully completed

**Python and Statistics for Financial Analysis**

an online non-credit course authorized by The Hong Kong University of Science and Technology and offered through Coursera

A handwritten signature in black ink, appearing to read 'Xulu Wan'.

Xulu Wan  
Associate Professor  
Department of Informatics Systems, Business Statistics and Operations Management

COURSE  
CERTIFICATE



Verify at:  
<https://coursera.org/verify/6HKAPTEQTXA2>  
Coursera has confirmed the identity of this individual and their participation in the course.



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 11, 2022

**Akash Lohar**

has successfully completed the online, non-credit Specialization

## Machine Learning

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Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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Verify this certificate at:  
<https://coursera.org/verify/specialization/6TNY2WKRCSPT>

**W** UNIVERSITY of WASHINGTON

Jun 11, 2022

**Gourab Samadder**

has successfully completed

**Machine Learning: Regression**

a MOOC from the University of Washington and offered through Coursera

COURSE  
CERTIFICATE



A handwritten signature in black ink, appearing to read "Emily Fox".

Emily Fox  
Amazon Professor of Machine Learning  
Practices

Carlos Guzmán  
Amazon Professor of Machine Learning  
Computer Science and Engineering

Verify at:  
<https://coursera.org/verify/BDKYDPS1LLPY>  
Coursera has confirmed the identity of this individual and their participation in the course.





COURSE  
CERTIFICATE

Mar 8, 2022

**Shiva Mondal**

has successfully completed

**Applied Machine Learning in Python**

an online non-credit course authorized by University of Michigan and offered through  
Coursera



A handwritten signature in black ink that reads 'KCT' followed by a flourish.

Kevyn Collins-Thompson  
Associate Professor  
School of Information

Verify at:  
<https://coursera.org/verify/74GLCBHA7EN7>  
Coursera has confirmed the identity of this individual and their  
participation in the course.



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 10, 2022

**Sujan Kumar Dey**

has successfully completed the online, non-credit Specialization

## Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington. Through a series of practical case studies, you gained applied experience in major areas of Machine Learning including Prediction, Classification, Clustering, and Information Retrieval. You learned to analyze large and complex datasets, create systems that adapt and improve over time, and build intelligent applications that can make predictions from data. Take pride in your accomplishment and welcome to the global Machine Learning community!

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Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

Verify this certificate at:  
<https://coursera.org/verify/specialization/94AKFR49MLWQ>



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



May 31, 2022

**SK FARUK**

has successfully completed the online, non-credit Specialization

## Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington. Through a series of practical case studies, you gained applied experience in major areas of Machine Learning including Prediction, Classification, Clustering, and Information Retrieval. You learned to analyze large and complex datasets, create systems that adapt and improve over time, and build intelligent applications that can make predictions from data. Take pride in your accomplishment and welcome to the global Machine Learning community!

Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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Verify this certificate at:  
<https://coursera.org/verify/specialization/CWPMKPM/KN9C>





南京大學  
NANJING UNIVERSITY

Nov 15, 2022

JAHIRUL HASAN MOLLAH

has successfully completed

Data Processing Using Python

an online non-credit course authorized by Nanjing University and offered through Coursera

ZHANG Li

Zhang Li  
associate professor  
Department of Computer Science

COURSE  
CERTIFICATE



Verify at:

<https://coursera.org/verify/E36TNGMVVN2U>

Coursera has confirmed the identity of this individual and their participation in the course.

**W** UNIVERSITY of WASHINGTON

Jun 11, 2022

**Gourab Samadder**

has successfully completed

**Machine Learning: Clustering & Retrieval**

a MOOC from the University of Washington and offered through Coursera

COURSE  
CERTIFICATE



Emily Fox  
Amazon Professor of Machine Learning  
Practices

Carlos Guzmán  
Amazon Professor of Machine Learning  
Computer Science and Engineering

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4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 6, 2022

**Naurin Sultana**

has successfully completed the online, non-credit Specialization

## Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington. Through a series of practical case studies, you gained applied experience in major areas of Machine Learning including Prediction, Classification, Clustering, and Information Retrieval. You learned to analyze large and complex datasets, create systems that adapt and improve over time, and build intelligent applications that can make predictions from data. Take pride in your accomplishment and welcome to the global Machine Learning community!

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Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

Verify this certificate at:  
<https://coursera.org/verify/specialization/HPN55WFZ54JU>





4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 5, 2022

**JAHIRUL HASAN MOLLAH**

has successfully completed the online, non-credit Specialization

## Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington.

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Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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Verify this certificate at:  
<https://coursera.org/verify/specialization/KZZAZVYKRHHB>



5 Courses

The Data Scientist's Toolbox  
R Programming  
Getting and Cleaning Data  
Exploratory Data Analysis  
Reproducible Research



Jan 11, 2022

**Shiva Mondal**

has successfully completed the online, non-credit Specialization

## Data Science: Foundations using R

The Data Science Specialization covers foundational concepts and tools for the data science pipeline. Successful participants learn how to use the tools of the trade, think analytically about complex problems, manage large data sets, create visualizations, and publish reproducible analyses. This certificate does not confer academic credit toward a degree or official status at the Johns Hopkins University.

Jeff Leek, PhD; Roger  
Perg, PhD; Brian Caffo,  
PhD  
Department of  
Biostatistics  
Johns Hopkins  
Bloomberg School of  
Public Health

The online specialization named in this certificate may draw on material from courses taught on campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:  
<https://coursera.org/verify/specialization/VZTNXRR69R8>



5 Courses

Statistical Inference  
Regression Models  
Practical Machine Learning  
Developing Data Products  
Data Science Capstone



May 26, 2022

**Dibyendu Dutta**

has successfully completed the online, non-credit Specialization

## Data Science: Statistics and Machine Learning

The Data Science Specialization covers the concepts and tools for an entire data science pipeline. Successful participants learn how to use the tools of the trade, think analytically about complex problems, manage large data sets, deploy statistical principles, create visualizations, build and evaluate machine learning algorithms, publish reproducible analyses, and develop data products. This certificate does not confer academic credit toward a degree or official status at the Johns Hopkins University.

Jeff Leek, PhD; Roger Perg, PhD; Brian Caffo, PhD  
Department of Biostatistics  
Johns Hopkins Bloomberg School of Public Health

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Verify this certificate at:  
<https://coursera.org/verify/specialization/PDAVAVNZTYM>

**W** UNIVERSITY of WASHINGTON

Jun 11, 2022

**Gourab Samadder**

has successfully completed

**Machine Learning Foundations: A Case Study Approach**

a MOOC from the University of Washington and offered through Coursera

COURSE  
CERTIFICATE



Emily Fox  
Amazon Professor of Machine Learning  
Practices

Carlos Guzmán  
Amazon Professor of Machine Learning  
Computer Science and Engineering

Verify at:  
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Coursera has confirmed the identity of this individual and their participation in the course.





4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 7, 2022

**Sourav Mondal**

has successfully completed the online, non-credit Specialization

## Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington. Through a series of practical case studies, you gained applied experience in major areas of Machine Learning including Prediction, Classification, Clustering, and Information Retrieval. You learned to analyze large and complex datasets, create systems that adapt and improve over time, and build intelligent applications that can make predictions from data. Take pride in your accomplishment and welcome to the global Machine Learning community!

Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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Verify this certificate at:  
<https://coursera.org/verify/specialization/DYMA7R7IGRSV>

**W** UNIVERSITY of WASHINGTON

Jun 11, 2022

**Gourab Samadder**

has successfully completed

**Machine Learning: Classification**

a MOOC from the University of Washington and offered through Coursera

COURSE  
CERTIFICATE



Emily Fox  
Amazon Professor of Machine Learning  
Practices

Carlos Guzmán  
Amazon Professor of Machine Learning  
Computer Science and Engineering

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4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 11, 2022

**Pritam Das**

has successfully completed the online, non-credit Specialization

## Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington. Through a series of practical case studies, you gained applied experience in major areas of Machine Learning including Prediction, Classification, Clustering, and Information Retrieval. You learned to analyze large and complex datasets, create systems that adapt and improve over time, and build intelligent applications that can make predictions from data. Take pride in your accomplishment and welcome to the global Machine Learning community!

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Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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<https://coursera.org/verify/specialization/RRVJFGKQR6TV>



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 5, 2022

**Sudipta Halder**

has successfully completed the online, non-credit Specialization

## Machine Learning

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Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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<https://coursera.org/verify/specializations/ZY2RAMZCRCE>





4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 4, 2022

## MD WAHIDDUJAMAN BISWASH

has successfully completed the online, non-credit Specialization

# Machine Learning

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Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



May 30, 2022

**Brayen Sarkar**

has successfully completed the online, non-credit Specialization

## Machine Learning

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Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

Verify this certificate at:  
<https://coursera.org/verify/specializations/WPFHRHM6X18>



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



May 30, 2022

**Gourab Dey**

has successfully completed the online, non-credit Specialization

## Machine Learning

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Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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Verify this certificate at:  
<https://coursera.org/verify/specialization/TV98N7Y3BRT>



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 10, 2022

**Mithu Rani Das**

has successfully completed the online, non-credit Specialization

## Machine Learning

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Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

Verify this certificate at:  
<https://coursera.org/verify/specialization/JRKKJT34HC8U>





4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



May 30, 2022

**Argha Banik**

has successfully completed the online, non-credit Specialization

## Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington.

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Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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Verify this certificate at:  
<https://coursera.org/verify/specialization/WA000206Y224>



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



May 24, 2022

**Dibyendu Dutta**

has successfully completed the online, non-credit Specialization

## Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington. Through a series of practical case studies, you gained applied experience in major areas of Machine Learning including Prediction, Classification, Clustering, and Information Retrieval. You learned to analyze large and complex datasets, create systems that adapt and improve over time, and build intelligent applications that can make predictions from data. Take pride in your accomplishment and welcome to the global Machine Learning community!

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Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

Verify this certificate at:  
<https://coursera.org/verify/specialization/WWC7ZC7NP8LP>



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



May 30, 2022

## Jyotishree Mondal

has successfully completed the online, non-credit Specialization

# Machine Learning

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Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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Verify this certificate at:  
<https://coursera.org/verify/specialization/5ZDOEBEB4AJS>



Mar 8, 2022

**Shiva Mondal**

has successfully completed

**Python and Statistics for Financial Analysis**

an online non-credit course authorized by The Hong Kong University of Science and Technology and offered through Coursera

A handwritten signature in black ink, appearing to read 'Xulu Wan'.

Xulu Wan  
Associate Professor  
Department of Informatics Systems, Business Statistics and Operations Management

**COURSE  
CERTIFICATE**



Verify at:  
<https://coursera.org/verify/6HKAPTEQTXA2>  
Coursera has confirmed the identity of this individual and their participation in the course.





4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 11, 2022

**Akash Lohar**

has successfully completed the online, non-credit Specialization

## Machine Learning

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Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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Verify this certificate at:  
<https://coursera.org/verify/specialization/6TNY2WKRCSPT>

**W** UNIVERSITY of WASHINGTON

Jun 11, 2022

**Gourab Samadder**

has successfully completed

**Machine Learning: Regression**

a MOOC from the University of Washington and offered through Coursera

COURSE  
CERTIFICATE



Emily Fox  
Amazon Professor of Machine Learning  
Practices

Carlos Guzmán  
Amazon Professor of Machine Learning  
Computer Science and Engineering

Verify at:  
<https://coursera.org/verify/BDKYDPS1LLPY>  
Coursera has confirmed the identity of this individual and their participation in the course.



Mar 8, 2022

**Shiva Mondal**

has successfully completed

**Applied Machine Learning in Python**

an online non-credit course authorized by University of Michigan and offered through Coursera

A handwritten signature in black ink that reads 'KCT' followed by a flourish.

Kevyn Collins-Thompson  
Associate Professor  
School of Information

COURSE  
CERTIFICATE



Verify at:

<https://coursera.org/verify/74GLCBHA7EN7>

Coursera has confirmed the identity of this individual and their participation in the course.



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 10, 2022

**Sujan Kumar Dey**

has successfully completed the online, non-credit Specialization

## Machine Learning

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Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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Verify this certificate at:  
<https://coursera.org/verify/specialization/92AKFR39MLWQ>



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



May 31, 2022

**SK FARUK**

has successfully completed the online, non-credit Specialization

## Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington. Through a series of practical case studies, you gained applied experience in major areas of Machine Learning including Prediction, Classification, Clustering, and Information Retrieval. You learned to analyze large and complex datasets, create systems that adapt and improve over time, and build intelligent applications that can make predictions from data. Take pride in your accomplishment and welcome to the global Machine Learning community!

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Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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Verify this certificate at:  
<https://coursera.org/verify/specialization/CWPMKPM/KN9C>





南京大學  
NANJING UNIVERSITY

Nov 15, 2022

JAHIRUL HASAN MOLLAH

has successfully completed

Data Processing Using Python

an online non-credit course authorized by Nanjing University and offered through Coursera

ZHANG Li

Zhang Li  
associate professor  
Department of Computer Science

COURSE  
CERTIFICATE



Verify at:

<https://coursera.org/verify/E36TNGMVVN2U>

Coursera has confirmed the identity of this individual and their participation in the course.

**W** UNIVERSITY of WASHINGTON

Jun 11, 2022

**Gourab Samadder**

has successfully completed

**Machine Learning: Clustering & Retrieval**

a MOOC from the University of Washington and offered through Coursera

COURSE  
CERTIFICATE



Emily Fox  
Amazon Professor of Machine Learning  
Practices

Carlos Guzmán  
Amazon Professor of Machine Learning  
Computer Science and Engineering

Verify at:  
<https://coursera.org/verify/EC2PJEHT2KG3>  
Coursera has confirmed the identity of this individual and their participation in the course.



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 6, 2022

**Naurin Sultana**

has successfully completed the online, non-credit Specialization

## Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington. Through a series of practical case studies, you gained applied experience in major areas of Machine Learning including Prediction, Classification, Clustering, and Information Retrieval. You learned to analyze large and complex datasets, create systems that adapt and improve over time, and build intelligent applications that can make predictions from data. Take pride in your accomplishment and welcome to the global Machine Learning community!

Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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Verify this certificate at:  
<https://coursera.org/verify/specialization/HPN55WFZ54JU>



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 5, 2022

**JAHIRUL HASAN MOLLAH**

has successfully completed the online, non-credit Specialization

## Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington. Through a series of practical case studies, you gained applied experience in major areas of Machine Learning including Prediction, Classification, Clustering, and Information Retrieval. You learned to analyze large and complex datasets, create systems that adapt and improve over time, and build intelligent applications that can make predictions from data. Take pride in your accomplishment and welcome to the global Machine Learning community!

Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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Verify this certificate at:  
<https://coursera.org/verify/specialization/KZZAZVYKRHHB>



5 Courses

The Data Scientist's Toolbox  
R Programming  
Getting and Cleaning Data  
Exploratory Data Analysis  
Reproducible Research



Jan 11, 2022

**Shiva Mondal**

has successfully completed the online, non-credit Specialization

## Data Science: Foundations using R

The Data Science Specialization covers foundational concepts and tools for the data science pipeline. Successful participants learn how to use the tools of the trade, think analytically about complex problems, manage large data sets, create visualizations, and publish reproducible analyses. This certificate does not confer academic credit toward a degree or official status at the Johns Hopkins University.

Jeff Leek, PhD; Roger  
Perg, PhD; Brian Caffo,  
PhD  
Department of  
Biostatistics  
Johns Hopkins  
Bloomberg School of  
Public Health

The online specialization named in this certificate may draw on material from courses taught on campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:  
<https://coursera.org/verify/specialization/VZTNXRR49R8>





5 Courses

Statistical Inference  
Regression Models  
Practical Machine Learning  
Developing Data Products  
Data Science Capstone



May 26, 2022

### Dibyendu Dutta

has successfully completed the online, non-credit Specialization

## Data Science: Statistics and Machine Learning

The Data Science Specialization covers the concepts and tools for an entire data science pipeline. Successful participants learn how to use the tools of the trade, think analytically about complex problems, manage large data sets, deploy statistical principles, create visualizations, build and evaluate machine learning algorithms, publish reproducible analyses, and develop data products. This certificate does not confer academic credit toward a degree or official status at the Johns Hopkins University.

Jeff Leek, PhD; Roger Perg, PhD; Brian Caffo, PhD  
Department of Biostatistics  
Johns Hopkins Bloomberg School of Public Health

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Verify this certificate at:  
<https://coursera.org/verify/specialization/PDAVAVNZTYM>

**W** UNIVERSITY of WASHINGTON

Jun 11, 2022

**Gourab Samadder**

has successfully completed

**Machine Learning Foundations: A Case Study Approach**

a MOOC from the University of Washington and offered through Coursera

COURSE  
CERTIFICATE



Emily Fox  
Amazon Professor of Machine Learning  
Practices

Carlos Guzmán  
Amazon Professor of Machine Learning  
Computer Science and Engineering

Verify at:  
<https://coursera.org/verify/PFXVH5BNY3F3>  
Coursera has confirmed the identity of this individual and their participation in the course.



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 7, 2022

**Sourav Mondal**

has successfully completed the online, non-credit Specialization

## Machine Learning

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Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

Verify this certificate at:  
<https://coursera.org/verify/specialization/DYMA7R7IGRSV>

**W** UNIVERSITY of WASHINGTON

COURSE  
CERTIFICATE

Jun 11, 2022

**Gourab Samadder**

has successfully completed

**Machine Learning: Classification**

a MOOC from the University of Washington and offered through Coursera



Emily Fox  
Amazon Professor of Machine Learning  
Practices

Carlos Guzmán  
Amazon Professor of Machine Learning  
Computer Science and Engineering

Verify at:  
<https://coursera.org/verify/2B04C8DBXCMX>  
Coursera has confirmed the identity of this individual and their participation in the course.



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 11, 2022

**Pritam Das**

has successfully completed the online, non-credit Specialization

## Machine Learning

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Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

Verify this certificate at:  
<https://coursera.org/verify/specialization/RRVJFGKQR6TV>





4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 5, 2022

**Sudipta Halder**

has successfully completed the online, non-credit Specialization

## Machine Learning

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Carlos Guestrin,  
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Verify this certificate at:  
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4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 4, 2022

## MD WAHIDDUJAMAN BISWASH

has successfully completed the online, non-credit Specialization

# Machine Learning

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Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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Verify this certificate at:  
<https://coursera.org/verify/specialization/SUJQ2LAMEHD9>



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



May 30, 2022

**Brayen Sarkar**

has successfully completed the online, non-credit Specialization

## Machine Learning

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Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

Verify this certificate at:  
<https://coursera.org/verify/specializations/WPFHRHM6X18>



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



May 30, 2022

**Gourab Dey**

has successfully completed the online, non-credit Specialization

## Machine Learning

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Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
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Verify this certificate at:  
<https://coursera.org/verify/specialization/TV98N7Y3BRT>



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



Jun 10, 2022

**Mithu Rani Das**

has successfully completed the online, non-credit Specialization

## Machine Learning

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Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

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Verify this certificate at:  
<https://coursera.org/verify/specialization/JRKKJT34HC8U>





4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



May 30, 2022

**Argha Banik**

has successfully completed the online, non-credit Specialization

## Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington. Through a series of practical case studies, you gained applied experience in major areas of Machine Learning including Prediction, Classification, Clustering, and Information Retrieval. You learned to analyze large and complex datasets, create systems that adapt and improve over time, and build intelligent applications that can make predictions from data. Take pride in your accomplishment and welcome to the global Machine Learning community!

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Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

Verify this certificate at:  
<https://coursera.org/verify/specialization/WA000206Y224>



4 Courses

Machine Learning  
Foundations: A Case Study  
Approach

Machine Learning:  
Regression

Machine Learning:  
Classification

Machine Learning:  
Clustering & Retrieval



May 24, 2022

**Dibyendu Dutta**

has successfully completed the online, non-credit Specialization

## Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington. Through a series of practical case studies, you gained applied experience in major areas of Machine Learning including Prediction, Classification, Clustering, and Information Retrieval. You learned to analyze large and complex datasets, create systems that adapt and improve over time, and build intelligent applications that can make predictions from data. Take pride in your accomplishment and welcome to the global Machine Learning community!

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Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

Verify this certificate at:  
<https://coursera.org/verify/specialization/WWC7ZC7NP8LP>

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22HS05S43751383

To  
JOYSREE SAHA  
82,SHYAM BOSE ROAD,ALIPORE  
82,SHYAM BOSE ROAD, ALIPORE  
KOLKATA  
WEST BENGAL - 700027  
PH. NO :9903309721



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:1

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**JOYSREE SAHA**

for successfully completing the course

**Effective Writing**

with a consolidated score of **64** %

Online Assignments	20/25	Proctored Exam	43.5/75
--------------------	-------	----------------	---------

Total number of candidates certified in this course: **3816**

**Prof. Sanjeev Manhas**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jan-Feb 2022  
(4 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CS42S43702082

To  
MEHUL PANJA  
AE/D-33/7/2 NORTH 24 PARGANAS  
WEST BENGAL - 700059  
PH. NO :8017754710



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**MEHUL PANJA**

for successfully completing the course

## An Introduction to Programming through C++

with a consolidated score of **68** %

Online Assignments	23.43/25	Programming Assignment	24.57/25	Proctored Exam	20/50
--------------------	----------	------------------------	----------	----------------	-------

Total number of candidates certified in this course: **2183**

Jan-Apr 2022  
(12 week course)

  
**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



Roll No:NPTEL22CS42S43702082

To validate and check scores: <https://nptel.ac.in/noc>



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22MG50S43702707

To  
ANKIT SHAW  
10/2/1 NASKAR PARA ROAD  
GHUSURI  
HOWRAH  
WEST BENGAL - 711107  
PH. NO :9330509853



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**ANKIT SHAW**

for successfully completing the course

**International Marketing**

with a consolidated score of **91** %

Online Assignments	25/25	Proctored Exam	66/75
--------------------	-------	----------------	-------

Total number of candidates certified in this course: **640**

Prof. Jayanta Mukhopadhyay  
Dean Outreach  
IIT Kharagpur

Feb-Apr 2022  
(8 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No:NPTEL22MG50S43702707

To validate and check scores: <https://nptel.ac.in/noc>





May 31, 2022

**TANMOY GHOSHAL**

has successfully completed

**Java Programming: Solving Problems with  
Software**

an online non-credit course authorized by Duke University and offered through Coursera

Four handwritten signatures in black ink, arranged horizontally from left to right.

Susan H. Rodgers, Owen Astrachan, Andrew D. Hilton, Robert Duvall

**COURSE  
CERTIFICATE**



Verify at:

<https://coursera.org/verify/9MXWG7HLDJV2>

Coursera has confirmed the identity of this individual and their participation in the course.



4 Courses

**Machine Learning  
Foundations: A Case Study  
Approach**

**Machine Learning:  
Regression**

**Machine Learning:  
Classification**

**Machine Learning:  
Clustering & Retrieval**



Jun 6, 2022

**Naurin Sultana**

has successfully completed the online, non-credit Specialization

# Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington. Through a series of practical case studies, you gained applied experience in major areas of Machine Learning including Prediction, Classification, Clustering, and Information Retrieval. You learned to analyze large and complex datasets, create systems that adapt and improve over time, and build intelligent applications that can make predictions from data. Take pride in your accomplishment and welcome to the global Machine Learning community!

Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:

<https://coursera.org/verify/specialization/HFN55WF2S4JU>



## MTA LEARNING

Education Division of FROSTEE'S INDIA PVT.LTD.  
ISO 9001:2015 Certified Company



**TRAINING PARTNER OF N.S.D.C**  
**(National Skill Development Corporation)**

# *Certificate of Excellence*



*This is to certify that*

*Ramiz Taaseen*  
*Of*

**REGENT EDUCATION AND RESEARCH FOUNDATION**

Has successfully completed  
Industrial Training

*On*

**Mechanical Engineering**

*From our*

**Mukesh Hyundai Workshop**

Start Date: 2<sup>nd</sup> May , 2022 • End Date: 31<sup>st</sup> May, 2022

Sauvik Bera  
Executive Director  
MTA Learning





This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21HS76S44370192

To  
SUPRIYO SARKAR  
DEBPARA TEA ESTATE  
BANARHAT  
JALPAIGURI  
WEST BENGAL - 735202  
PH. NO :8001711202



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SUPRIYO SARKAR**

for successfully completing the course

## Soft Skills

with a consolidated score of **55** %

Online Assignments	23.44/25	Proctored Exam	31.88/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **7293**

**Prof. V. C. Srivastava**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jul-Oct 2021  
(12 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee





4 Courses

**Machine Learning  
Foundations: A Case Study  
Approach**

**Machine Learning:  
Regression**

**Machine Learning:  
Classification**

**Machine Learning:  
Clustering & Retrieval**



Jun 10, 2022

**Sujan Kumar Dey**

has successfully completed the online, non-credit Specialization

# Machine Learning

Congratulations! This Certificate establishes that you have demonstrated proficiency in the exciting, high-demand field of Machine Learning through rigorous online coursework from leading Machine Learning researchers at the University of Washington. Through a series of practical case studies, you gained applied experience in major areas of Machine Learning including Prediction, Classification, Clustering, and Information Retrieval. You learned to analyze large and complex datasets, create systems that adapt and improve over time, and build intelligent applications that can make predictions from data. Take pride in your accomplishment and welcome to the global Machine Learning community!

Emily Fox, Amazon  
Professor of Machine  
Learning, Statistics  
Carlos Guestrin,  
Amazon Professor of  
Machine Learning,  
Computer Science and  
Engineering

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:

<https://coursera.org/verify/specialization/94AKFR49MLWQ>



# UCI Division of Continuing Education

Nov 19, 2021

## Tamal Pan

has successfully completed

### Communication in the 21st Century Workplace

an online non-credit course authorized by University of California, Irvine and offered through Coursera

*Patricia Bravo*

Patricia Bravo, MBA, SPHR  
Instructor  
University of California, Irvine Extension

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/G56DB7RF2GCL](https://coursera.org/verify/G56DB7RF2GCL)  
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 12, 2022

# Tamal Pan

has successfully completed

## CAM and Design Manufacturing for Mechanical Engineers with Autodesk Fusion 360

an online non-credit course authorized by Autodesk and offered through Coursera

Andrew Anagnost, President and Chief Executive Officer of Autodesk, Inc.

### COURSE CERTIFICATE



Verify at [coursera.org/verify/NA8VPHVYMCWS](https://coursera.org/verify/NA8VPHVYMCWS)  
Coursera has confirmed the identity of this individual and their participation in the course.

# **M** UNIVERSITY OF MICHIGAN

Aug 19, 2021

## Tamal Pan

has successfully completed

### Applied Machine Learning in Python

an online non-credit course authorized by University of Michigan and offered through Coursera



Kevyn Collins-Thompson  
Associate Professor  
School of Information

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/T3P6MUTFHAWB](https://coursera.org/verify/T3P6MUTFHAWB)  
Coursera has confirmed the identity of this individual and their participation in the course.



# ISB

Sep 9, 2021

## Tamal Pan

has successfully completed

### A Life of Happiness and Fulfillment

an online non-credit course authorized by Indian School of Business and offered through  
Coursera

*Rajagopal Raghunathan*

Rajagopal Raghunathan, PhD  
McCombs School of Business  
Indian School of Business

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/W489C88W9PNJ](https://coursera.org/verify/W489C88W9PNJ)  
Coursera has confirmed the identity of this individual and their  
participation in the course.



This certifies that

**Ritwik Chatterjee**

has successfully completed the freeCodeCamp.org

**Data Visualization**

Developer Certification, representing approximately 300 hours of  
coursework.



Quincy Larson

Executive Director, freeCodeCamp.org

Verify this certification at <https://freecodecamp.org/certification/fcc4243d92f-663b-4943-9cb4-b7dbcef83b83/data-visualization>





Apr 16, 2022

# Tamal Pan

has successfully completed

## Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360

an online non-credit course authorized by Autodesk and offered through Coursera

Andrew Anagnost, President and Chief Executive Officer of Autodesk, Inc.

### COURSE CERTIFICATE



Verify at:

<https://coursera.org/verify/SWXLEBP4EAUX>

Coursera has confirmed the identity of this individual and their participation in the course.



# Certificate

We certify that **Sayan Ghosh**  
has completed the following courses on our platform:



## Biology by CrashCourse

07 hours 53 minutes - From 06/03/2023 to 06/03/2023

Adrian Medeiros Dantas  
Executive Director - Cursa

Student Signature  
Sayan Ghosh

c832-2238317



Point the camera to  
verify authenticity

This certificate proves that the student has attended the courses described therein through the Cursa application, which is available in the Google (Google Play) and Apple (App Store) application stores, proving the authenticity of the respective viewing time of the video classes. If you have received this certificate and want to verify that it is authentic, scan the QR code with a cell phone camera or access [curso.app/en/my-certificate](https://curso.app/en/my-certificate) and consult the code described in the lower right corner of this certificate.

Responsible for the application: Medeiros Tecnologia LTDA. CNPJ 24.471.978/0001-08.

E-mail: [contato@curso.app](mailto:contato@curso.app)



AMERICAN MUSEUM  
OF NATURAL HISTORY



May 31, 2022

TANMOY GHOSHAL

has successfully completed

Ecology: Ecosystem Dynamics and Conservation

an online non-credit course authorized by American Museum of Natural History, Howard Hughes Medical Institute and offered through Coursera

Ana Luz Porzecanski  
Director, Center for Biodiversity and Conservation  
American Museum of Natural History

COURSE  
CERTIFICATE



Verify at:  
<https://coursera.org/verify/U6VA7FM66AQK>

Coursera has confirmed the identity of this individual and their participation in the course.

# UCI Division of Continuing Education

May 31, 2022

## TANMOY GHOSHAL

has successfully completed

### Effective Problem-Solving and Decision-Making

an online non-credit course authorized by University of California, Irvine and offered through Coursera



Rob Stone, PMP, M.Ed.  
Instructor  
University of California, Irvine Extension

COURSE  
CERTIFICATE



Verify at:  
<https://coursera.org/verify/BTNLW6CH2RFV>

Coursera has confirmed the identity of this individual and their participation in the course.





**Penn**  
UNIVERSITY *of* PENNSYLVANIA

Jul 25, 2021

**Pratistha Pramanik**

has successfully completed

**English for Career Development**

an online non-credit course authorized by University of Pennsylvania and offered through  
Coursera

*Brian Mc Manus*

*Robyn Turner*

Brian McManus  
Language Specialist  
English Language Programs  
University of Pennsylvania

Robyn Turner  
Senior Language Specialist  
English Language Programs

COURSE  
CERTIFICATE



Verify at:  
[coursera.org/verify/8V444LEZT8XP](https://coursera.org/verify/8V444LEZT8XP)

Coursera has confirmed the identity of this individual and their participation in the course.

The online course named in this certificate may draw on material from courses taught on-campus, but it is not equivalent to an on-campus course. Participation in this online course does not constitute enrollment at the University of Pennsylvania. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.





**4TU** Centre for Ethics  
and Technology

Jul 23, 2021

**Pratistha Pramanik**

has successfully completed

**Ethics, Technology and Engineering**

an online non-credit course authorized by Eindhoven University of Technology and  
4TU.Ethics and offered through Coursera

Lambert Royackers  
Associate Professor  
Eindhoven University of Technology

**COURSE  
CERTIFICATE**



Verify at:  
<https://coursera.org/verify/KUVLCTD9S9W9>

Coursera has confirmed the identity of this individual and their  
participation in the course.

# UCI Division of Continuing Education

May 31, 2022

## TANMOY GHOSHAL

has successfully completed

### Grammar and Punctuation

an online non-credit course authorized by University of California, Irvine and offered through Coursera



Helen Nam  
Tamy Chapman  
International Programs, UCI Extension

COURSE  
CERTIFICATE



Verify at:  
<https://coursera.org/verify/XXAMEQDBDJYU>

Coursera has confirmed the identity of this individual and their participation in the course.



# *Certificate of Completion*

*This is to certify that **Anchita Das** successfully completed 38.5 total hours of **Build Amazing Websites w/ HTML, CSS, Sass, JavaScript & More** online course on July 2, 2021*

*Juan E. Galvan*     *Nahid Akhter*

Juan E. Galvan, Instructor

Nahid Akhter, Instructor

&



Certificate no: UC-122e0c4a-4a5d-4ee6-b7b7-f0c8eddbaa17  
Certificate url: [ude.my/UC-122e0c4a-4a5d-4ee6-b7b7-f0c8eddbaa17](https://ude.my/UC-122e0c4a-4a5d-4ee6-b7b7-f0c8eddbaa17)  
Version 3

#BeAble





THE UNIVERSITY  
of EDINBURGH

May 31, 2022

TANMOY GHOSHAL

has successfully completed

Introduction to Philosophy

an online non-credit course authorized by The University of Edinburgh and offered  
through Coursera

Dave Ward, Duncan Pritchard, Suilin Lavelle, Matthew Chrisman, Allan Hazlett, Michela Massimi, Alasdair Richmond  
Department of Philosophy  
University of Edinburgh

COURSE  
CERTIFICATE



Verify at:

<https://coursera.org/verify/QDZLWG4V8AXR>

Coursera has confirmed the identity of this individual and their  
participation in the course.



May 31, 2022

**TANMOY GHOSHAL**

has successfully completed

**Successful Career Development**

an online non-credit course authorized by University System of Georgia and offered through Coursera

Dan Stotz, Elke M Leeds, Ph.D., Ana T. Baida, Ed.D., Wes Rhea, J.D.  
Kennesaw State University

**COURSE  
CERTIFICATE**



Verify at:  
<https://coursera.org/verify/S3BAX9CQFXPF>

Coursera has confirmed the identity of this individual and their participation in the course.





Certificate no: UC-269d2d1a-1c11-4b13-9a9c-749ef70f1db2  
Certificate url: ude.my/UC-269d2d1a-1c11-4b13-9a9c-749ef70f1db2  
Reference Number: 0004

CERTIFICATE OF COMPLETION

# Complete Korean Course: Learn Korean for Beginners

Instructors **Linguae Learning, Linguae Teaching Assistant**

## Moumita Bhakta

Date **July 30, 2021**

Length **33.5 total hours**

 Scanned with CamScanner

Scanned with CamScanner



Certificate no: UC-1b1dc6c3-3494-477c-8d7c-41dc940b9987

Certificate url: [ude.my/UC-1b1dc6c3-3494-477c-8d7c-41dc940b9987](https://ude.my/UC-1b1dc6c3-3494-477c-8d7c-41dc940b9987)

Reference Number: 0004

CERTIFICATE OF COMPLETION

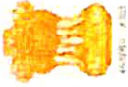
# Machine Learning & Deep Learning in Python & R

Instructors **Start-Tech Academy**

**Bijay Gorai**

Date **May 31, 2022**

Length **35 total hours**



# YOUTH COMPUTER TRAINING CENTRE

An Initiative of Department of Youth Services  
Government of West Bengal  
32/1, B.B.D. Bag (South), Kolkata - 700 001

## BARRACKPORE YOUTH COMPUTER TRAINING CENTRE

Barrackpore Municipality Office Complex B.T Road, Talpukur, Barrackpore, North 24 Parganas-700123

### STATEMENT OF MARKS

Name SK SALAM HAQUE  
Son/Daughter of SK AINUL HAQUE  
Reg No. 1134753652 Session Jan-2021-Dec-2021  
Course Title Diploma in Information Technology Application

Semester	Papers Covered	Full Marks	Obtained Marks
Semester1	Theory	70	52.96
	Practical	30	30.0
Semester2	Theory	70	26.0
	Practical	30	27.0
Semester3			

Grand Total  
In Words  
Result/Graduation

136

One hundred Thirty Six  
PASS / B

Director

Directorate of Youth Services,  
Govt. of West Bengal

Grades : 90% & Above = A+; 80-89% = A; 70-79% = B+; 60-69% = B; 50-59% = C; 40-49% = D; 30-39% = E

Assessed and evaluated by Hewlett Packard Enterprise India Pvt. Ltd. through Electronic Examination and Assessment System



**Hewlett Packard  
Enterprise**

**HPE Education Services**

Awarded to

**Sk Salam Haque**

For successfully undergoing online assessment in **Advance Excel** on **27-May-22**  
and securing Grade **'A'**.

V Suresh  
May 27, 2022

On behalf of HPE MoC & Education Services

Country Business Manager - HPE MoC & Education Services

Certificate No. : **HPE/CoC/WB/2205-044041**

To verify the authenticity of certificate, please visit - [www.hpapro.com/verify](http://www.hpapro.com/verify)

Grades : 80% & Above = A+, 70-79% = A, 60-69% = B+, 50-59% = B, 40-49% = C+, 30-39% = C.





Certificate no: UC-bb30aa61-9636-4aa8-bcd4-e390cf1f4583

Certificate url: [ude.my/UC-bb30aa61-9636-4aa8-bcd4-e390cf1f4583](https://ude.my/UC-bb30aa61-9636-4aa8-bcd4-e390cf1f4583)

Reference Number: 0004

CERTIFICATE OF COMPLETION

# CSS, Bootstrap, JavaScript And PHP Stack Complete Course

Instructors **PROPER DOT INSTITUTE**

## Supriyo Sarkar

Date **Dec. 16, 2021**

Length **8 total hours**



Certificate no: UC-c36fa4c4-bf39-4d6c-943c-5c1d159bbcdd

Certificate url: [ude.my/UC-c36fa4c4-bf39-4d6c-943c-5c1d159bbcdd](https://ude.my/UC-c36fa4c4-bf39-4d6c-943c-5c1d159bbcdd)

Reference Number: 0004

CERTIFICATE OF COMPLETION

# Environment and Ethics: A Basic Course

Instructors **Dr. Swati Chakraborty**

**Supriyo Sarkar**

Date **Nov. 29, 2021**

Length **9 total hours**



Certificate no: UC-daa40c06-bfc9-4619-a9e6-58cb8e000121

Certificate url: [ude.my/UC-daa40c06-bfc9-4619-a9e6-58cb8e000121](https://ude.my/UC-daa40c06-bfc9-4619-a9e6-58cb8e000121)

Reference Number: 0004

CERTIFICATE OF COMPLETION

# Learn C++ Programming - Beginner to Advance- Deep Dive in C++

Instructors **Abdul Bari**

## Supriyo Sarkar

Date **June 8, 2022**

Length **30.5 total hours**

This certifies that

**SK MD ASHIF**

has successfully completed the freeCodeCamp.org

**Front End Development Libraries**

Developer Certification, representing approximately 300 hours of  
coursework.



Quincy Larson

Executive Director, freeCodeCamp.org

Verify this certification at <https://freecodecamp.org/certification/fcc4a253dda-f24b-4df0-be0d-05746370deef/front-end-development-libraries>



This certifies that

**SK MD ASHIF**

has successfully completed the freeCodeCamp.org

**Front End Development Libraries**

Developer Certification, representing approximately 300 hours of  
coursework.



Quincy Larson

Executive Director, freeCodeCamp.org

Verify this certification at <https://freecodecamp.org/certification/fcc4a253dda-f24b-4df0-be0d-05746370deef/front-end-development-libraries>

This certifies that

**SK MD ASHIF**

has successfully completed the freeCodeCamp.org

**Responsive Web Design**

Developer Certification, representing approximately 300 hours of  
coursework.



Quincy Larson

Executive Director, freeCodeCamp.org

Verify this certification at <https://freecodecamp.org/certification/fcc4a253dda-f24b-4df0-be0d-05746370deef/responsive-web-design>



AMERICAN MUSEUM  
OF NATURAL HISTORY



May 31, 2022

TANMOY GHOSHAL

has successfully completed

Ecology: Ecosystem Dynamics and Conservation

an online non-credit course authorized by American Museum of Natural History, Howard Hughes Medical Institute and offered through Coursera

Ana Luz Porzecanski  
Director, Center for Biodiversity and Conservation  
American Museum of Natural History

COURSE  
CERTIFICATE



Verify at:  
<https://coursera.org/verify/U6VA7FM66AQK>

Coursera has confirmed the identity of this individual and their participation in the course.



THE UNIVERSITY  
of EDINBURGH

May 31, 2022

TANMOY GHOSHAL

has successfully completed

Introduction to Philosophy

an online non-credit course authorized by The University of Edinburgh and offered  
through Coursera

Dave Ward, Duncan Pritchard, Suilin Lavelle, Matthew Chrisman, Allan Hazlett, Michela Massimi, Alasdair Richmond  
Department of Philosophy  
University of Edinburgh

COURSE  
CERTIFICATE



Verify at:

<https://coursera.org/verify/QDZLWG4V8AXR>

Coursera has confirmed the identity of this individual and their  
participation in the course.





May 31, 2022

**TANMOY GHOSHAL**

has successfully completed

**Java Programming: Solving Problems with  
Software**

an online non-credit course authorized by Duke University and offered through Coursera

Four handwritten signatures in black ink, arranged horizontally from left to right.

Susan H. Rodgers, Owen Astrachan, Andrew D. Hilton, Robert Duvall

**COURSE  
CERTIFICATE**



Verify at:

<https://coursera.org/verify/9MXWG7HLDJV2>

Coursera has confirmed the identity of this individual and their participation in the course.

# **M** UNIVERSITY OF MICHIGAN

May 31, 2022

## TANMOY GHOSHAL

has successfully completed

**Programming for Everybody (Getting Started with Python)**

an online non-credit course authorized by University of Michigan and offered through Coursera



Charles Severance  
Clinical Professor, School of Information  
University of Michigan

COURSE  
CERTIFICATE



Verify at:  
<https://coursera.org/verify/EWWUUMY2L28T>

Coursera has confirmed the identity of this individual and their participation in the course.

# UCI Division of Continuing Education

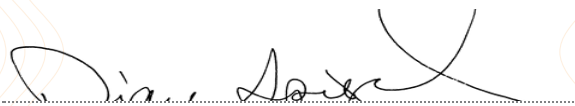
May 31, 2022

## TANMOY GHOSHAL

has successfully completed

### Communication in the 21st Century Workplace

an online non-credit course authorized by University of California, Irvine and offered through Coursera



Diane Spiegel,  
Executive Coach

COURSE  
CERTIFICATE



Verify at:

<https://coursera.org/verify/R2FEDVZQSTM>

Coursera has confirmed the identity of this individual and their participation in the course.

# UCI Division of Continuing Education

May 31, 2022

## TANMOY GHOSHAL

has successfully completed

### Effective Problem-Solving and Decision-Making

an online non-credit course authorized by University of California, Irvine and offered through Coursera



Rob Stone, PMP, M.Ed.  
Instructor  
University of California, Irvine Extension

COURSE  
CERTIFICATE



Verify at:  
<https://coursera.org/verify/BTNLW6CH2RFV>

Coursera has confirmed the identity of this individual and their participation in the course.





May 31, 2022

**TANMOY GHOSHAL**

has successfully completed

**Successful Career Development**

an online non-credit course authorized by University System of Georgia and offered through Coursera

Dan Stotz, Elke M Leeds, Ph.D., Ana T. Baida, Ed.D., Wes Rhea, J.D.  
Kennesaw State University

**COURSE  
CERTIFICATE**



Verify at:  
<https://coursera.org/verify/S3BAX9CQFXPF>

Coursera has confirmed the identity of this individual and their participation in the course.

# UCI Division of Continuing Education

May 31, 2022

## TANMOY GHOSHAL

has successfully completed

### Grammar and Punctuation

an online non-credit course authorized by University of California, Irvine and offered through Coursera



Helen Nam  
Tamy Chapman  
International Programs, UCI Extension

COURSE  
CERTIFICATE



Verify at:  
<https://coursera.org/verify/XXAMEQDBDJYU>

Coursera has confirmed the identity of this individual and their participation in the course.



Certificate no: UC-169c7e77-633b-4067-bc7f-728b7cee8f78

Certificate url: [ude.my/UC-169c7e77-633b-4067-bc7f-728b7cee8f78](https://ude.my/UC-169c7e77-633b-4067-bc7f-728b7cee8f78)

Reference Number: 0004

CERTIFICATE OF COMPLETION

# Adobe Photoshop 2022 Ultimate Guide

Instructors **Learn Tech Plus**

## **Bijay Gorai**

Date **June 7, 2022**

Length **22 total hours**