



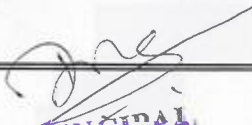
Shree Rahul Education Society's (Regd.)

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

(Approved by AICTE & DTE, Maharashtra State & Affiliated to University of Mumbai)
NAAC Accredited, NBA Accredited Program, ISO 9001:2015 Certified (DTE Code No.: 3423)
Minority Status (Hindi Linguistic)

Course Completion Certificate for Add on /Certificate/Value added programs for last five years

Sr. No	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Year of offering
1	Structural and Architectural Aspects in Civil Engineering	2022 -2023
2	AWS Cloud	2022 -2023
3	Computer Graphics	2022 -2023
4	Programming In Java	2022 -2023
5	The Joy of Computing using python	2022 -2023
6	Advanced Python for Mechanical Engineering	2022 -2023
7	Advanced Cybersecurity Malware Analysis	2022 -2023
8	Digital VLSI Design	2022-2023
9	Product Design and Development	2022-2023
10	5 G Communication	2022 -2023
11	Environmental Ethics	2022-2023
12	Automation Testing and Deveops	2022-2023
13	Digital Marketing	2022-2023
14	Game Asset Development using Blender	2022-2023
15	Machine Learning	2022-2023
16	Flutter	2022-2023


PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakya Park, Mira Road (E).






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17	Fundamental and Application of Robotics Lab	2021-2022
18	AWS Cloud	2021-2022
19	Internet of Things	2021-2022
20	CCNAV7:Introduction to Networks	2021- 2022
21	CCNAV7:Switch Routing and Wireless Essential	2021-2022
22	CCNAV7:Enterprise, Networking, Security & Automation	2021- 2022
23	Add on course"Drone Technologies"	2021-2022
24	Python for Mechanical Engineering	2021- 2022
25	Programming Foundations with JavaScript, HTML and CSS	2020-2021
26	Introduction to Electronics	2020-2021
27	Algorithmic Toolbox	2020-2021
28	Convolutional Neural Networks	2020-2021
29	Deep Learning	2020-2021
30	Google IT Support	2020-2021
31	Introduction to Data Science in Python	2020-2021
32	IT Security: Defense against the digital dark arts	2020-2021


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Sr. No	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Year of offering
33	Operating Systems and You: Becoming a Power User	2020-2021
34	R Programming	2020-2021
35	Sequence Models	2020-2021
36	Supply Chain Management	2020-2021
37	Python for Everybody	2020-2021
38	Application of Geoinformatics in Ecological Studies	2020-2021
39	Introduction to Data Science in Python	2020-2021
40	Object Oriented Programming in Java	2020-2021
41	HTML, CSS, and Javascript for Web Developers	2020-2021
42	Introduction to Scripting in Python	2020-2021
43	Database Management Essentials	2020-2021
44	Building Web Applications in PHP	2020-2021
45	Java Programming and Software Engineering Fundamentals	2020-2021
46	A complete report writing workshop using LaTeX software	2019-2020
47	Value education on Self Development	2019-2020
48	Personality Development: Self-Discovery Intensive	2019-2020


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Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).





Shree Rahul Education Society's (Regd.)

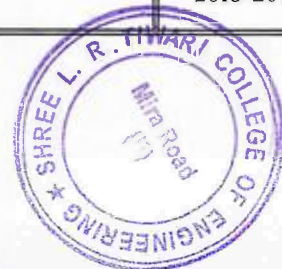
SHREE L. R. TIWARI COLLEGE OF ENGINEERING

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NAAC Accredited, NBA Accredited Program, ISO 9001:2015 Certified [DTE Code No.: 3423
Minority Status (Hindi Linguistic)]

Course Completion Certificate for Add on /Certificate/Value added programs for last five years

Sr. No	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Year of offering
49	Solid Works and Ansys	2019-2020
50	Integrity Engineering: Nurturing Values in Technology	2019-2020
51	Essentials of Dharma: Mindful Decision-Making	2019-2020
52	Value Education for Mind Control: Brainpower Enhancement	2019-2020
53	Robotics	2018-2019
54	Ethics in engineering & value education :AURA	2018-2019
55	Dharma-A Life of Integration	2018-2019
56	Basic Programming Using Python	2018-2019
57	Ethics in engineering and value education	2018-2019
58	Human Rights	2018-2019
59	Environmental Impact Assessment	2018-2019
60	Soft Skill Development	2018-2019
61	Internet of Things	2018-2019
62	Panchkosh	2018-2019
63	Value added education on mind control	2018-2019
64	Personality Development	2018-2019


PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakya Park, Mira Road (E).





07/28/2020

Shubham Durga Karmokar

has successfully completed with honors

Programming Foundations with JavaScript, HTML and CSS

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

Susan H. Rodger, Professor of the Practice, Computer Science
Robert Duvall, Lecturer, Computer Science
Owen Astrachan, Professor of the Practice, Computer Science
Andrew D. Hilton, Assistant Professor of the Practice, Electrical and Computer Engineering

COURSE CERTIFICATE

WITH HONORS



Verify at coursera.org/verify/XU4USR4ZXP4J
Coursera has confirmed the identity of this individual and their participation in the course.



Oct 18, 2020

Jughal Shah

has successfully completed

Programming Foundations with JavaScript, HTML
and CSS

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, they appear to be: Susan H. Rodger, Robert Duvall, Owen Astrachan, and Andrew D. Hilton.

Susan H. Rodger, Professor of the Practice, Computer Science
Robert Duvall, Lecturer, Computer Science
Owen Astrachan, Professor of the Practice, Computer Science
Andrew D. Hilton, Assistant Professor of the Practice, Electrical and Computer Engineering

COURSE
CERTIFICATE



Verify at coursera.org/verify/EKWHZVDLESPH
Coursera has confirmed the identity of this individual and their
participation in the course.



Oct 26, 2020

Abhishek Suryaprakash Pandey

has successfully completed with honors

Programming Foundations with JavaScript, HTML and CSS

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

Susan H. Rodger, Professor of the Practice, Computer Science
Robert Duvall, Lecturer, Computer Science
Owen Astrachan, Professor of the Practice, Computer Science
Andrew D. Hilton, Assistant Professor of the Practice, Electrical and Computer Engineering

COURSE CERTIFICATE

WITH HONORS



Verify at coursera.org/verify/JYH6WZNU84LN

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



08/16/2020

Prathamesh Prashant Shivalkar

has successfully completed

Programming Foundations with JavaScript, HTML
and CSS

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. Rodger, Professor of the Practice, Computer Science
Robert Duvall, Lecturer, Computer Science
Owen Astrachan, Professor of the Practice, Computer Science
Andrew D. Hilton, Assistant Professor of the Practice, Electrical and Computer Engineering

COURSE
CERTIFICATE



Verify at coursera.org/verify/VZ2SWTDQB4C5
Coursera has confirmed the identity of this individual and
their participation in the course.



08/24/2020

ATUL BHIM SINGH

has successfully completed

**Programming Foundations with JavaScript, HTML
and CSS**

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. Rodger, Robert Duvall, Owen Astrachan, and Andrew D. Hilton.

Susan H. Rodger, Professor of the Practice, Computer Science
Robert Duvall, Lecturer, Computer Science
Owen Astrachan, Professor of the Practice, Computer Science
Andrew D. Hilton, Assistant Professor of the Practice, Electrical and Computer Engineering

**COURSE
CERTIFICATE**



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



Dec 4, 2020

VAIBHAV SINGH

has successfully completed

**Programming Foundations with JavaScript, HTML
and CSS**

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, they appear to be: Susan H. Rodger, Robert Duvall, Owen Astrachan, and Andrew D. Hilton.

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Owen Astrachan, Professor of the Practice, Computer Science
Andrew D. Hilton, Assistant Professor of the Practice, Electrical and Computer Engineering

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/N5R3NS5KS2L9
Coursera has confirmed the identity of this individual and their
participation in the course.



Jun 27, 2020

Abu saad Choudhary

has successfully completed

Programming Foundations with JavaScript, HTML
and CSS

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

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Robert Duvall, Lecturer, Computer Science
Owen Astrachan, Professor of the Practice, Computer Science
Andrew D. Hilton, Assistant Professor of the Practice, Electrical and Computer Engineering

COURSE
CERTIFICATE



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



07/17/2020

Devansh Dharmendra Shah

has successfully completed

**Programming Foundations with JavaScript, HTML
and CSS**

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

Susan H. Rodger, Professor of the Practice, Computer Science
Robert Duvall, Lecturer, Computer Science
Owen Astrachan, Professor of the Practice, Computer Science
Andrew D. Hilton, Assistant Professor of the Practice, Electrical and Computer Engineering

**COURSE
CERTIFICATE**



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



Jul 10, 2020

Ankit Mahesh Shukla

has successfully completed

Programming Foundations with JavaScript, HTML
and CSS

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, they appear to be: Susan H. Rodger, Robert Duvall, Owen Astrachan, and Andrew D. Hilton.

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Robert Duvall, Lecturer, Computer Science
Owen Astrachan, Professor of the Practice, Computer Science
Andrew D. Hilton, Assistant Professor of the Practice, Electrical and Computer Engineering

COURSE
CERTIFICATE



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



06/29/2020

Jash Nimje

has successfully completed with honors

Programming Foundations with JavaScript, HTML and CSS

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

Four handwritten signatures in black ink, arranged horizontally.

Susan H. Rodger, Professor of the Practice, Computer Science
Robert Duvall, Lecturer, Computer Science
Owen Astrachan, Professor of the Practice, Computer Science
Andrew D. Hilton, Assistant Professor of the Practice, Electrical and Computer Engineering

COURSE CERTIFICATE

WITH HONORS



Verify at coursera.org/verify/U8U9RW4P6G4F
Coursera has confirmed the identity of this individual and their participation in the course.



07/10/2020

LSD Priyanka Peddinti

has successfully completed

Introduction to Electronics

an online non-credit course authorized by Georgia Institute of Technology and offered through Coursera

A handwritten signature in black ink that reads "Bonnie H. Ferri".

Professor Bonnie H. Ferri
School of Electrical and Computer Engineering
Georgia Institute of Technology

A handwritten signature in black ink that reads "Dr. Allen Robinson".

Dr. Allen Robinson
School of Electrical and Computer Engineering
Georgia Institute of Technology

COURSE
CERTIFICATE



Verify at coursera.org/verify/2TBJXWKUEZDE
Coursera has confirmed the identity of this individual and their participation in the course.

UC San Diego



HIGHER SCHOOL OF ECONOMICS
NATIONAL RESEARCH UNIVERSITY

06/07/2020

SHIVANG SRIVASTAVA

has successfully completed

Algorithmic Toolbox

an online non-credit course authorized by University of California San Diego and National Research University Higher School of Economics and offered through Coursera

Alexander S. Kulikov, Visiting Professor; Michael Levin, Associate Professor; Neil Rhodes, Adjunct Faculty; Pavel A. Pevzner, Ronald R. Taylor Distinguished Professor of Computer Science, Director, NIH Center for Computational Mass Spectrometry; Daniel M. Kane, Assistant Professor, Computer Science and Engineering at the University of California, San Diego

COURSE CERTIFICATE



Verify at coursera.org/verify/6WJDC6PAQYPQ

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



06/07/2020

SHIVANG SRIVASTAVA

has successfully completed

Convolutional Neural Networks

an online non-credit course authorized by deeplearning.ai and offered through
Coursera

A handwritten signature in blue ink that reads "Andrew Ng".

Adjunct Professor Andrew Ng
Computer Science

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/HPSGUZPLRYP6
Coursera has confirmed the identity of this individual and
their participation in the course.



5 Courses

Neural Networks and Deep Learning

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization

Structuring Machine Learning Projects

Convolutional Neural Networks

Sequence Models



06/07/2020

SHIVANG SRIVASTAVA

has successfully completed the online, non-credit Specialization

Deep Learning

The Deep Learning Specialization is designed to prepare learners to participate in the development of cutting-edge AI technology, and to understand the capability, the challenges, and the consequences of the rise of deep learning. Through five interconnected courses, learners develop a profound knowledge of the hottest AI algorithms, mastering deep learning from its foundations (neural networks) to its industry applications (Computer Vision, Natural Language Processing, Speech Recognition, etc.).

Adjunct Professor
Andrew Ng
Computer Science

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:
coursera.org/verify/specialization/DAVW3ZT33E5C



5 Courses

Technical Support
Fundamentals

The Bits and Bytes of Computer
Networking

Operating Systems and You:
Becoming a Power User

System Administration and IT
Infrastructure Services

IT Security: Defense against the
digital dark arts



06/15/2020

SHIVANG SRIVASTAVA

has successfully completed the online, non-credit Professional Certificate

Google IT Support

Whether you've been tinkering with IT or are completely new to the field, you've come to the right place. This five-course certificate, developed by Googlers, includes industry-relevant curriculum designed to prepare you for an entry-level role in IT support. Think in-person or remote help desk work, either in small shops or at a global company, like Google!

Google

Google

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:
coursera.org/verify/professional-cert/QY69RRB8VSZE



06/06/2020

SHIVANG SRIVASTAVA

has successfully completed

Introduction to Data Science in Python

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

A handwritten signature in black ink, appearing to read 'Chris Brooks'.

Christopher Brooks
Research Assistant Professor
School of Information

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/ZSDRXN3GBJ6P
Coursera has confirmed the identity of this individual and
their participation in the course.



06/14/2020

SHIVANG SRIVASTAVA

has successfully completed

IT Security: Defense against the digital dark arts

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

Google

Google

**COURSE
CERTIFICATE**



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



07/25/2020

Aditya Rajendra Singh

has successfully completed

IT Security: Defense against the digital dark arts

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

Google

Google

**COURSE
CERTIFICATE**



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



06/13/2020

SHIVANG SRIVASTAVA

has successfully completed

Operating Systems and You: Becoming a Power User

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

Google

Google

**COURSE
CERTIFICATE**



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



JOHNS HOPKINS
UNIVERSITY

06/02/2020

SHIVANG SRIVASTAVA

has successfully completed

R Programming

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

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

COURSE
CERTIFICATE



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their participation in the course.

Some online courses may draw on material from courses taught on campus but are not equivalent to on-campus courses. This certificate does not affirm that this learner was enrolled as a student at Johns Hopkins University in any way. It does not confer a JHU grade, course credit or degree; establish any relationship between this learner and JHU or other JHU affiliate; enroll or register this learner at JHU or other JHU affiliate or in any course offered by JHU; or entitle this learner to access or use the resources of JHU or other JHU affiliates beyond the online courses provided by Coursera.



deeplearning.ai

06/07/2020

SHIVANG SRIVASTAVA

has successfully completed

Sequence Models

an online non-credit course authorized by deeplearning.ai and offered through
Coursera

A handwritten signature in blue ink that reads "Andrew Ng".

Adjunct Professor Andrew Ng
Computer Science

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/WSXJ73BWD9C8
Coursera has confirmed the identity of this individual and
their participation in the course.



5 Courses

Supply Chain Logistics
Supply Chain Operations
Supply Chain Planning
Supply Chain Sourcing
Supply Chain Management Strategy



09/09/2020

Hussain Shabbir Motiwalla

has successfully completed the online, non-credit Specialization

Supply Chain Management

The Supply Chain Management Specialization focuses on the network of firms that are linked in today's global economy. This introductory specialization covers the tools, techniques and best practices employed by today's leading companies to succeed in the marketplace. The learner mastered the fundamentals in Logistics, Operations, Planning, and Sourcing, followed by a capstone course in Supply Chain Management Strategy.

Rudolf Leuschner

Rudolf Leuschner, Ph.D.
Assistant Professor
Department of Supply
Chain Management
Rutgers Business School
Rutgers University

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Verify this certificate at:
coursera.org/verify/specialization/FJEGCNA9V2MR



5 Courses

Programming for Everybody
(Getting Started with Python)

Python Data Structures

Using Python to Access Web
Data

Using Databases with Python

Capstone: Retrieving,
Processing, and Visualizing Data
with Python



06/22/2020

Hussain Shabbir Motiwalla

has successfully completed the online, non-credit Specialization

Python for Everybody

This Specialization builds on the success of the Python for Everybody course and will introduce fundamental programming concepts including data structures, networked application program interfaces, and databases, using the Python programming language. In the Capstone Project, you'll use the technologies learned throughout the Specialization to design and create your own applications for data retrieval, processing, and visualization.

Charles Severance
Clinical Associate
Professor, School of
Information
University of Michigan

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Verify this certificate at:
coursera.org/verify/specialization/KVL5MJ8ASMVN



5 Courses

Programming for Everybody
(Getting Started with Python)

Python Data Structures

Using Python to Access Web
Data

Using Databases with Python

Capstone: Retrieving,
Processing, and Visualizing Data
with Python



06/23/2020

Jash Nimje

has successfully completed the online, non-credit Specialization

Python for Everybody

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Charles Severance
Clinical Associate
Professor, School of
Information
University of Michigan

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Verify this certificate at:
coursera.org/verify/specialization/S7XZXT3RM8AY



5 Courses

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

Python Data Structures

**Using Python to Access Web
Data**

**Using Databases with
Python**

**Capstone: Retrieving,
Processing, and Visualizing
Data with Python**



30 Sep, 2020

Sunil Amarjeet Yadav

has successfully completed the online, non-credit Specialization

Python for Everybody

This Specialization builds on the success of the Python for Everybody course and will introduce fundamental programming concepts including data structures, networked application program interfaces, and databases, using the Python programming language. In the Capstone Project, you'll use the technologies learned throughout the Specialization to design and create your own applications for data retrieval, processing, and visualization.

Charles Severance
Clinical Associate
Professor, School of
Information
University of Michigan

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Verify this certificate at:
coursera.org/verify/specialization/QPC5YSWCUT67



भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



नामांकन सं./ Enrollment No. : 2020600177504

ऑनलाइन दूरस्थ अधिगम प्रमाण पत्र
ONLINE DISTANCE LEARNING CERTIFICATE

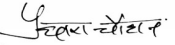
पाठ्यक्रम प्रमाणपत्र/ COURSE COMPLETION CERTIFICATE

यह प्रमाणित किया जाता है कि श्री चिंतन सुनील जंगम को यह प्रमाण पत्र “ पारिस्थितिकी अध्ययन में भू-सूचना विज्ञान के अनुप्रयोग ” में ऑनलाइन पाठ्यक्रम पूर्ण करने पर प्रदान किया जाता है। इस पाठ्यक्रम का आयोजन भारतीय सुदूर संवेदन संस्थान (आईआईआरएस) द्वारा 13 जुलाई, 2020 से 24 जुलाई, 2020 के दौरान किया गया। प्रतिभागी ने आईआईआरएस आउटरीच नेटवर्क सेंटर, श्री एल आर तिवारी कॉलेज ऑफ इंजिनियरिंग से इस पाठ्यक्रम में भाग लिया है।

This is to certify that **MR. CHINTAN SUNIL JANGAM** has been awarded this certificate on having completed the online course on “**Application of Geoinformatics in Ecological Studies**”. The course was conducted by Indian Institute of Remote Sensing (IIRS), during 13-07-2020 to 24-07-2020. The participant has attended the course at IIRS outreach network centre, **Shree L R Tiwari College of Engineering**.

Date: 10-09-2020
Dehradun


समन्वयक, विश्वविद्यालय/ संस्थान
Coordinator, University/ Institution


निदेशक/ Director,
आई०आई०आर०एस, देहरादून/IIRS, Dehradun

UID- 2f8a339b8f20000f4bd1dd785d0abff6 .This Certificate can be validated using URL- <https://certificate.iirs.gov.in>



06/29/2020

Praveen OmPrakash Vishwakarma

has successfully completed

Introduction to Data Science in Python

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

A handwritten signature in black ink, appearing to read 'Chris Brooks'.

Christopher Brooks
Research Assistant Professor
School of Information

COURSE CERTIFICATE



Verify at coursera.org/verify/X4T6EA4FFYBM
Coursera has confirmed the identity of this individual and
their participation in the course.



20.09.2020

Akhlak Ali Liyakat Ali Sunasara

has successfully completed

Introduction to Data Science in Python

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

A handwritten signature in black ink, appearing to read 'Chris Brooks'.

Christopher Brooks
Research Assistant Professor
School of Information

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/GTXJRLAKMNEB
Coursera has confirmed the identity of this individual and
their participation in the course.

UC San Diego

Oct 12, 2020

Jash Nimje

has successfully completed

Object Oriented Programming in Java

an online non-credit course authorized by University of California San Diego and offered through Coursera

Christine Alvarado *Mia Minnes* *Leo Porter*

Christine Alvarado, Mia Minnes, Leo Porter

COURSE
CERTIFICATE



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JOHNS HOPKINS
UNIVERSITY

Nov 2, 2020

Aditya Rajendra Singh

has successfully completed

HTML, CSS, and Javascript for Web Developers

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

Yaakov C.

Yaakov Chaikin
Adjunct Professor, Graduate Computer Science
Whiting School of Engineering
Johns Hopkins University

COURSE
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4 Courses

Python Programming
Essentials

Python Data
Representations

Python Data Analysis

Python Data Visualization



Jun 30, 2020

Roshan Ranjeet Verma

has successfully completed the online, non-credit Specialization

Introduction to Scripting in Python

This specialization is intended for beginners who intend to master essential programming skills. Through four courses, you will cover key Python programming concepts which will prepare you to use Python to perform common scripting tasks. This will provide a solid foundation for future careers in data science, software engineering, or other careers involving programming.

Joe Warren
Professor
Dept. of Computer
Science
Rice University

Scott Rixner
Professor
Dept. of Computer
Science
Rice University

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Verify this certificate at:
coursera.org/verify/specialization/BWKRQ8W8F6DG



University of Colorado

Boulder | Colorado Springs | Denver | Anschutz Medical Campus

07/23/2020

NANCY SUBHASH JAISWAL

has successfully completed

Database Management Essentials

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

A handwritten signature in black ink that reads "Michael Mannino".

Professor Michael Mannino
Information Systems Program
Business School
University of Colorado Denver

**COURSE
CERTIFICATE**



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



07/14/2020

Ritika Shukla

has successfully completed

Building Web Applications in PHP

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



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



5 Courses

Programming Foundations with JavaScript, HTML and CSS

Java Programming: Solving Problems with Software

Java Programming: Arrays, Lists, and Structured Data

Java Programming: Principles of Software Design

Java Programming: Build a Recommendation System



19.09.2020

Jash Nimje

has successfully completed the online, non-credit Specialization

Java Programming and Software Engineering Fundamentals

This Specialization covers the fundamentals of software development, focusing on a beginner-level introduction to rigorous problem-solving approaches while still embracing and extending traditional methods of computer science and software engineering. You'll explore foundational concepts such as algorithm development, data representation, and debugging, using common tools such as HTML/CSS, Javascript, and Java. In the final Capstone Project, you'll apply the skills you learned by creating a working recommender system that can help users find and choose items, such as films, books, or restaurants. Google has contributed real-world projects and the involvement of its engineers as guest lecturers to these courses.

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.

Andrew D. Hilton
Associate Professor of
the Practice
Electrical and Computer
Engineering

Robert Duvall
Lecturer
Computer Science

Susan H. Rodger
Professor of the Practice
Computer Science

Owen Astrachan
Professor of the Practice
Computer Science

Verify this certificate at:
coursera.org/verify/specialization/XCQPA9P6HWU8