



5 Courses

Python for Data Science, AI
& Development

Python Project for Data
Science

Data Analysis with Python

Data Visualization with
Python

Applied Data Science
Capstone



Apr 24, 2022

UTSHAB KUMAR GHOSH

has successfully completed the online, non-credit Specialization

Applied Data Science

In this specialization learners developed and honed skills for practical data science and machine learning problems. The specialization included learning Python, as well as performing data analysis, and creating data visualizations using Python. Learners also completed a Capstone project to apply and demonstrate their newly acquired knowledge and skills.

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.

Joseph Santarcangelo
Senior Data Scientist
IBM

Saishruthi Swaminathan
Data Scientist
IBM CODAIT

Azim Hirjani
Cognitive Data Scientist

Yan Luo
Ph.D., Data Scientist
and Developer

Verify this certificate at:

<https://coursera.org/verify/specialization/A3J546KPDWW>



#178,407

CERTIFICATE NUMBER

STATEMENT OF ACCOMPLISHMENT

HAS BEEN AWARDED TO

Utshab Kumar Ghosh

FOR SUCCESSFULLY COMPLETING

Data Scientist with Python Track



DataCamp



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




05/31/2020

Utshab Kumar Ghosh

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

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Verify this certificate at:
coursera.org/verify/specialization/WPBFWQE7KH7B



06/13/2020

Utshab Kumar Ghosh

has successfully completed

AI for Medical Diagnosis

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

A handwritten signature in blue ink, appearing to read "Pranav Rajpurkar".

Pranav Rajpurkar, PhD Candidate at Stanford University

COURSE
CERTIFICATE



Verify at coursera.org/verify/ERJHV9PGQCJT

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



CERTIFICATE OF COMPLETION

Utshab Kumar Ghosh

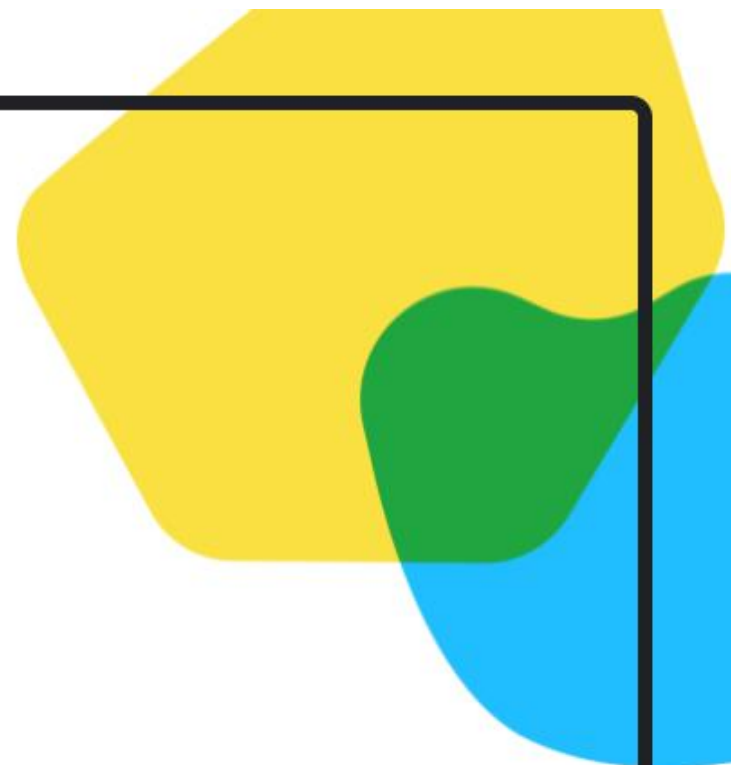
HAS SUCCESSFULLY COMPLETED THE COURSE

Intermediate Machine Learning

ON AUGUST 20, 2021

A handwritten signature in black ink, appearing to read "Alexis Cook", written over a horizontal line.

ALEXIS COOK, HEAD OF KAGGLE LEARN





04/26/2020

Utshab Kumar Ghosh

has successfully completed

Basic Image Classification with TensorFlow

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

A handwritten signature in black ink, appearing to read "Amit Yadav".

Amit Yadav
Instructor
Machine Learning and Data Science

COURSE CERTIFICATE



Verify at coursera.org/verify/AQ5EUFV2S4QT
Coursera has confirmed the identity of this individual and
their participation in the course.



06/01/2020

Utshab Kumar Ghosh

has successfully completed

Image Denoising Using AutoEncoders in Keras and Python

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

A handwritten signature in black ink that reads "Ryan Ahmed".

Ryan Ahmed
Adjunct Professor

COURSE CERTIFICATE



Verify at coursera.org/verify/P8AUGU6NR9SQ

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