



24-Jun-2020

shivam sah

has successfully completed

Data Visualization with Python

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

Saishruthi Swaminathan
Data Scientist
IBM CODAIT

Alex Akson, Ph.D.
Data Scientist

COURSE
CERTIFICATE



Verify at coursera.org/verify/AC9TTSA9KGKQ

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



31-May-2020

shivam sah

has successfully completed

Introduction to Artificial Intelligence (AI)

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

A handwritten signature in black ink, appearing to read "Rav Ahuja".

Rav Ahuja
Global Program Director,
Skills Network

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/B4D2M7M545V9

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

UC San Diego

23-Jun-2020

shivam sah

has successfully completed

Graph Analytics for Big Data

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



Amarnath Gupta
Research Scientist
San Diego Supercomputer Center

COURSE
CERTIFICATE



Verify at coursera.org/verify/B9K6MDZ93KXY

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

UC San Diego

23-Jun-2020

shivam sah

has successfully completed

Big Data Modeling and Management Systems

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



Ilkay Altintas
Chief Data Science Officer
San Diego Supercomputer Center

Amarnath Gupta
Research Scientist
San Diego Supercomputer Center

COURSE
CERTIFICATE



Verify at coursera.org/verify/DLL92WZB2X74

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



19-Jun-2020

shivam sah

has successfully completed

Databases and SQL for Data Science with Python

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

Three handwritten signatures in black ink, appearing to be "Hima", "Rav", and "Sandip".

Hima Vasudevan
Rav Ahuja
Sandip Saha Joy

COURSE
CERTIFICATE



Verify at coursera.org/verify/F3SG2F7JVLSH

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



22-Jun-2020

shivam sah

has successfully completed

Big Data Integration and Processing

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

A handwritten signature in black ink, reading "Ilkay Altintas", written over a horizontal dotted line.

Ilkay Altintas
Chief Data Science Officer
San Diego Supercomputer Center

Amarnath Gupta
Research Scientist
San Diego Supercomputer Center

COURSE
CERTIFICATE



Verify at coursera.org/verify/MG5HDG3MNTL

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



26-May-2020

shivam sah

has successfully completed

Introduction to Big Data

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

A handwritten signature in black ink, appearing to read "Ilkay Altintas", written over a horizontal dotted line.

Ilkay Altintas
Chief Data Science Officer
San Diego Supercomputer Center

Amarnath Gupta
Research Scientist
San Diego Supercomputer Center

COURSE
CERTIFICATE



Verify at coursera.org/verify/NESJHCJWEQ9K

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



31-May-2020

shivam sah

has successfully completed

Feature Engineering

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

Google Cloud Training

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/NT8GUYLBTT4N

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



22-Jun-2020

shivam sah

has successfully completed

Tools for Data Science

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

A horizontal line with three handwritten signatures in black ink above it. The signatures are Maureen McElaney, Romeo Kienzler, and Svetlana Levitan.

Maureen McElaney
Romeo Kienzler
Svetlana Levitan

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/Q7WMXZN23NHH

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