



4 Courses

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Convolutional Neural Networks in TensorFlow

Natural Language Processing in TensorFlow

Sequences, Time Series and Prediction



May 3, 2021

Sourabh S

has successfully completed the online, non-credit Professional Certificate

DeepLearning.AI TensorFlow Developer

Congratulations! You have completed all 4 courses of the DeepLearning.AI TensorFlow Developer Professional Certificate program. As part of this Professional Certificate program, you have learned: how to build and train neural networks using TensorFlow, how to improve network performance using convolutions as you train it to identify real-world images, how to teach machines to understand, analyze, and respond to human speech with natural language processing systems, and more! These, and other TensorFlow concepts, are going to be at the forefront of the coming transformation to an AI-powered future.

Laurence Moroney
Lead AI Advocate
Google

Andrew Ng
Founder
DeepLearning.AI

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/LP74MWARP6Z8



11.05.2020

Sourabh S

has successfully completed

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

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

Laurence Moroney

Laurence Moroney
Staff AI Advocate
Google Brain

COURSE CERTIFICATE



Verify at coursera.org/verify/58CPDCXMPTN6

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



May 1, 2021

Sourabh S

has successfully completed

Convolutional Neural Networks in TensorFlow

an online non-credit course authorized by DeepLearning.AI and offered through Coursera

Laurence Moroney

Laurence Moroney
Lead AI Advocate, Google

COURSE
CERTIFICATE



Verify at coursera.org/verify/CTWF2W4AWN66

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



May 3, 2021

Sourabh S

has successfully completed

Natural Language Processing in TensorFlow

an online non-credit course authorized by DeepLearning.AI and offered through Coursera

Laurence Moroney

Laurence Moroney
Lead AI Advocate, Google

COURSE
CERTIFICATE



Verify at coursera.org/verify/7Y66YJXXADUK

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



May 3, 2021

Sourabh S

has successfully completed

Sequences, Time Series and Prediction

an online non-credit course authorized by DeepLearning.AI and offered through Coursera

Laurence Moroney

Laurence Moroney
Lead AI Advocate, Google

COURSE
CERTIFICATE



Verify at coursera.org/verify/TSLBLDDCRX6N

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



Inspiring and empowering
future professionals

Sourabh S

Data Analytics Virtual Experience Program

Certificate of Completion

November 20th, 2020

Over the period of November 2020, Sourabh S has completed practical task modules in:

- Data preparation and customer analytics
- Experimentation and uplift testing
- Analytics and commercial application

A handwritten signature of Lauren Hammacher.

Lauren Hammacher
Executive Manager,
Analytics Community
Quantum

A handwritten signature of Tom Brunskill.

Tom Brunskill
CEO, Co-Founder of
Forage



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



14.05.2020

Sourabh S

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.).

A handwritten blue ink signature of the name "Andrew Ng".

Adjunct Professor
Andrew Ng
Computer Science

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Verify this certificate at:
coursera.org/verify/specialization/CL7JF75MRK8W



22.04.2020

Sourabh S

has successfully completed

Neural Networks and Deep Learning

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

A handwritten signature in blue ink that appears to read "Andrew Ng".

Adjunct Professor Andrew Ng
Computer Science

COURSE CERTIFICATE



Verify at coursera.org/verify/3FZSEEZCBE5C

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



26.04.2020

Sourabh S

has successfully completed

Improving Deep Neural Networks:
Hyperparameter tuning, Regularization and
Optimization

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

A handwritten signature in blue ink that appears to read "Andrew Ng".

Adjunct Professor Andrew Ng
Computer Science

COURSE CERTIFICATE



Verify at coursera.org/verify/ZHT93E53R9MA

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



30.04.2020

Sourabh S

has successfully completed

Structuring Machine Learning Projects

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

A handwritten signature in blue ink that appears to read "Andrew Ng".

Adjunct Professor Andrew Ng
Computer Science

COURSE CERTIFICATE



Verify at coursera.org/verify/4R627DKET78Q

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



09.05.2020

Sourabh S

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/JXGLW8KXW3QP

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



14.05.2020

Sourabh S

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/M2KD46V9CRCV

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



HIGHER SCHOOL OF ECONOMICS
NATIONAL RESEARCH UNIVERSITY

30.05.2020

Sourabh S

has successfully completed with honors

Introduction to Deep Learning

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

Alexander Panin Ekaterina Lobacheva
Kazell Musuma Andrei Zimovnov
E. Sokolov

Alexander Panin, Ekaterina Lobacheva,
Nikita Kazeev, Andrei Zimovnov,
Evgeny Sokolov

COURSE CERTIFICATE

WITH HONORS



Verify at coursera.org/verify/SGZKH5TXJCH4

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



19.05.2020

Sourabh S

has successfully completed

Build a Data Science Web App with Streamlit and Python

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

Snehan Kekre
Instructor
Machine Learning and Data Science

COURSE CERTIFICATE



Verify at coursera.org/verify/K3LECK6ZTD8H

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

Stanford | ONLINE

02.04.2020

Sourabh S

has successfully completed

Machine Learning

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



Associate Professor Andrew Ng
Computer Science Department
Stanford University

SOME ONLINE COURSES MAY DRAW ON MATERIAL FROM COURSES TAUGHT ON-CAMPUS BUT THEY ARE NOT EQUIVALENT TO ON-CAMPUS COURSES. THIS STATEMENT DOES NOT AFFIRM THAT THIS PARTICIPANT WAS ENROLLED AS A STUDENT AT STANFORD UNIVERSITY IN ANY WAY. IT DOES NOT CONFER A STANFORD UNIVERSITY GRADE, COURSE CREDIT OR DEGREE, AND IT DOES NOT VERIFY THE IDENTITY OF THE PARTICIPANT.

COURSE CERTIFICATE



Verify at coursera.org/verify/2RWKGTQR85PV

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



10.02.2020

Sourabh S

has successfully completed

How Google does Machine Learning

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

Google Cloud Training

COURSE CERTIFICATE



Verify at coursera.org/verify/PMCWMJLMB7Y5

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



21.02.2020

Sourabh S

has successfully completed

Launching into Machine Learning

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

Google Cloud Training

COURSE CERTIFICATE



Verify at coursera.org/verify/YJSV7W27LVTN

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



6 Courses

- Introduction to Artificial Intelligence (AI)
- Getting Started with AI using IBM Watson
- Building AI Powered Chatbots Without Programming
- Python for Data Science and AI
- Building AI Applications with Watson APIs
- Introduction to Computer Vision with Watson and OpenCV

08.02.2020

Sourabh S

has successfully completed the online, non-credit Professional Certificate

IBM Applied AI

This Professional Certificate provides a firm understanding of AI, its applications, and its use cases. Learners have become familiar with IBM Watson AI services and APIs. Learners have also grasped how virtual assistant technology works as well as built and deployed an AI powered customer support chatbot on a website. Learners competing this specialization have picked up practical Python skills to work with AI and have used IBM Watson AI services and APIs to create smart applications. They have become familiar with Computer Vision, Watson Visual Recognition and OpenCV and have used them for image processing and creating custom image classifiers. Learners have also demonstrated their proficiency in applied AI by completing several hands on projects.

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Joseph Santarcangelo
Senior Data Scientist
IBM

Rav Ahuja
AI & Data Science
Program Director
IBM Skills Network

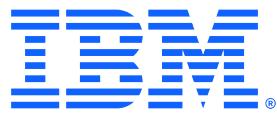
Antonio Cangiano
Software Developer and
Technical Evangelist
IBM Digital Business
Group

Yi Leng Yao
MSc., Data Scientist,
Software Engineer

Sacchit Chadha
Software Engineer

Tanmay Bakshi
AI Evangelist & Watson
Developer

Verify this certificate at:
coursera.org/verify/professional-cert/L7QVW58BE5RA



22.12.2019

Sourabh S

has successfully completed

Introduction to Artificial Intelligence (AI)

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

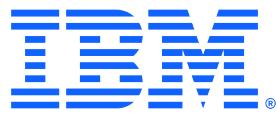
Rav Ahuja
AI & Data Science Program Director
IBM Skills Network

COURSE CERTIFICATE



Verify at coursera.org/verify/GHMH2SFSSCRT

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



01.01.2020

Sourabh S

has successfully completed

Getting Started with AI using IBM Watson

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

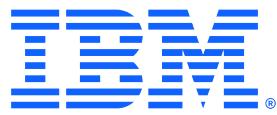
Rav Ahuja
AI & Data Science Program Director
IBM Skills Network

COURSE CERTIFICATE



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



10.01.2020

Sourabh S

has successfully completed

Building AI Powered Chatbots Without Programming

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

Antonio Cangiano

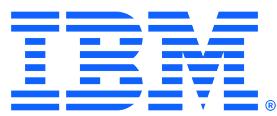
Antonio Cangiano
Software Developer and Technical Evangelist
IBM Digital Business Group

COURSE CERTIFICATE



Verify at coursera.org/verify/B5B6HHMXWUJG

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



08.02.2020

Sourabh S

has successfully completed

Python for Data Science and AI

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

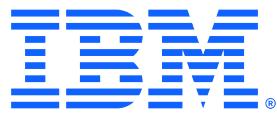
Joseph Santarcangelo
Senior Data Scientist
IBM

COURSE CERTIFICATE



Verify at coursera.org/verify/AU79HG36V466

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



22.01.2020

Sourabh S

has successfully completed

Building AI Applications with Watson APIs

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

Antonio Cangiano

Antonio Cangiano
Software Developer and Technical Evangelist
IBM Digital Business Group

Tanmay Bakshi

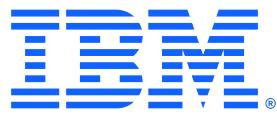
Tanmay Bakshi
AI Evangelist & Watson Developer

COURSE CERTIFICATE



Verify at coursera.org/verify/JWFJ75LF5SR6

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



05.02.2020

Sourabh S

has successfully completed

Introduction to Computer Vision with Watson and OpenCV

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

Yi Leng Yao

Yi Leng Yao
MSc., Data Scientist, Software Engineer

SL

Sacchit Chadha
Software Engineer

COURSE CERTIFICATE



Verify at coursera.org/verify/3ZZMTD8DSXV3

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



4 Courses



08/12/2019

Sourabh S

has successfully completed the online, non-credit Specialization

Entrepreneurship: Launching an Innovative Business

Develop your entrepreneurial mindset/skills, learn how to bring innovations to market, and craft a business model to successfully launch your business. This Specialization examines the entrepreneurial mindset/skill sets, indicators of innovation opportunities, critical steps to bring innovations to market, and innovation strategies to establish and maintain a competitive advantage.

James V. Green Thomas J. Mierzwa Michael R. Pratt

Dr. James V. Green | Dr.
Thomas J. Mierzwa |
Michael R. Pratt
Maryland Technology
Enterprise Institute
University of Maryland

Developing Innovative Ideas for New Companies: The First Step in Entrepreneurship

Innovation for Entrepreneurs: From Idea to Marketplace

New Venture Finance: Startup Funding for Entrepreneurs

Entrepreneurship Capstone

Verify this certificate at:
coursera.org/verify/specialization/72L5CHZYCZ5



13.06.2019

Sourabh S

has successfully completed

Developing Innovative Ideas for New Companies: The First Step in Entrepreneurship

an online non-credit course authorized by University of Maryland, College Park and
offered through Coursera

A handwritten signature in black ink that reads "James V. Green".

Dr. James V. Green
Maryland Technology Enterprise Institute
University of Maryland

COURSE CERTIFICATE



Verify at coursera.org/verify/83GL83F6H9VS

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



03.07.2019

Sourabh S

has successfully completed

Innovation for Entrepreneurs: From Idea to Marketplace

an online non-credit course authorized by University of Maryland, College Park and offered through Coursera

A handwritten signature in black ink that reads "Thomas J. Mierzwa".

Dr. Thomas J. Mierzwa
Lecturer of Technology Entrepreneurship
Maryland Technology Enterprise Institute (Mtech)

COURSE CERTIFICATE



Verify at coursera.org/verify/DPXAG6GT96PG

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



25.07.2019

Sourabh S

has successfully completed

New Venture Finance: Startup Funding for Entrepreneurs

an online non-credit course authorized by University of Maryland, College Park and offered through Coursera

A handwritten signature in black ink that reads "Michael R. Pratt".

Michael R. Pratt
Lecturer of Technology Entrepreneurship
Maryland Technology Enterprise Institute (Mtech)

COURSE CERTIFICATE



Verify at coursera.org/verify/HRVE72U6UT97

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



12.08.2019

Sourabh S

has successfully completed

Entrepreneurship Capstone

an online non-credit course authorized by University of Maryland, College Park and offered through Coursera

A handwritten signature in black ink that reads "James V. Green".

Dr. James V. Green
Maryland Technology Enterprise Institute
University of Maryland

COURSE CERTIFICATE



Verify at coursera.org/verify/6M7G8BMJ7RQ8

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



17.01.2020

Sourabh S

has successfully completed

Protecting Business Innovations via Patent

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 that reads "Theodore Henry King Clark".

Prof. Theodore Henry King CLARK
Associate Professor of Information Systems, Business Statistics
and Operations Management Department
Hong Kong University of Science and Technology

COURSE CERTIFICATE



Verify at coursera.org/verify/35JYRRHACBU4

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



Penn
UNIVERSITY OF PENNSYLVANIA

23.09.2019

Sourabh S

has successfully completed

Patent Law

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

R. Polk Wagner
Professor of Law

COURSE CERTIFICATE



Verify at coursera.org/verify/K9C98ALRCFRY

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04.08.2019

Sourabh S

has successfully completed

Finance for Startups

an online non-credit course authorized by Korea Advanced Institute of Science and Technology(KAIST) and offered through Coursera

A handwritten signature in black ink that appears to read "Steve Ahn".

Steve Ahn
Associate Professor
K-School

COURSE CERTIFICATE



Verify at coursera.org/verify/2BVL8LAZBS3

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

Certificate of Completion

*This is to certify that **Sourabh S** successfully completed 7 total hours of **Decision Trees, Random Forests, AdaBoost & XGBoost in Python** online course on April 29, 2020*

Start-Tech Academy

Start-Tech Academy, Instructor



Certificate no: UC-c367edbe-e357-4b88-8741-a4e9dac59e0e
Certificate url: ude.my/UC-c367edbe-e357-4b88-8741-a4e9dac59e0e

#BeAble



Certificate of Completion

This is to certify that

Sourabh S

Has successfully completed

Foundational Artificial Intelligence

an industry recommended and validated course aligned
to SSC NASSCOM Foundation AI curriculum

A handwritten signature in black ink that appears to read "Ratan Deep Singh".

Ratan Deep Singh

CEO SkillUp Online

Certificate of Completion issued by SkillUp Online

IBM Developer Skills Network



Python for Data Science and AI

Powered By



IBM Digital Credential

IBM Developer Skills Network

Chatbot Building Essentials

Powered By

coursera

IBM Digital Credential