



6 Courses

Machine Learning with Python

Scalable Machine Learning on
Big Data using Apache Spark

Introduction to Deep Learning &
Neural Networks with Keras

Deep Neural Networks with
PyTorch

Building Deep Learning Models
with TensorFlow

AI Capstone Project with Deep
Learning



08/01/2020

Tarun Kamboj

has successfully completed the online, non-credit Professional
Certificate

IBM AI Engineering

Learners who have completed this 6 course Professional Certificate have a practical understanding of Machine Learning (ML) & Deep Learning (DL). They have technical skills to start a career in AI Engineering, and can:

- Implement ML algorithms including Classification, Regression, Clustering, and Dimensional Reduction using scipy & scikitlearn
- Perform ML on Big Data and deploy ML Algorithms and Pipelines on Apache Spark
- Demonstrate understanding of Deep Learning models such as autoencoders, restricted Boltzmann machines, convolutional networks, recursive neural networks, and recurrent networks
- Build deep learning models and neural networks using Keras, PyTorch and Tensorflow libraries
- Demonstrate ability to present and communicate outcomes of deep learning projects

Romeo Kienzler
Chief Data Scientist
IBM Watson IoT

Joseph Santarcangelo
Senior Data Scientist
IBM

Alex Aklson, Ph.D.
Data Scientist

Saeed Aghabozorgi
Sr. Data Scientist
IBM

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/S32E9GAV8MJU



05/25/2020

Tarun Kamboj

has successfully completed

Machine Learning with Python

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

A handwritten signature in black ink, reading "Saeed A." in a cursive style.

Saeed Aghabozorgi
Sr. Data Scientist
IBM

A handwritten signature in black ink, reading "J. Santarcangelo" in a cursive style.

Joseph Santarcangelo
Senior Data Scientist
IBM

**COURSE
CERTIFICATE**



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their participation in the course.



06/01/2020

Tarun Kamboj

has successfully completed

Scalable Machine Learning on Big Data using Apache Spark

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

A handwritten signature in black ink, appearing to read 'R. Kienzler'.

Romeo Kienzler
Chief Data Scientist
IBM Watson IoT

COURSE CERTIFICATE



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06/05/2020

Tarun Kamboj

has successfully completed

Introduction to Deep Learning & Neural Networks with Keras

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

A handwritten signature in black ink, appearing to read 'Alex Aklson', written over a horizontal line.

Alex Aklson, Ph.D.
Data Scientist

COURSE CERTIFICATE



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07/19/2020

Tarun Kamboj

has successfully completed

Deep Neural Networks with PyTorch

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

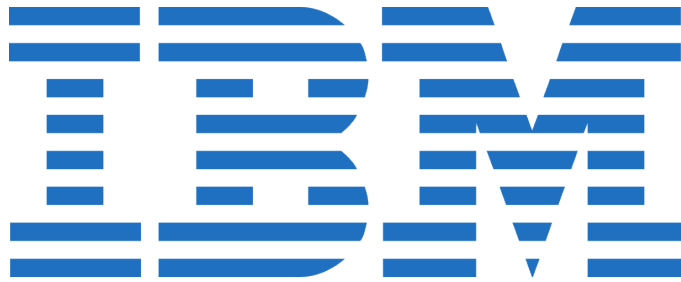
A handwritten signature in black ink, reading "Joseph Santarcangelo".

Joseph Santarcangelo
Senior Data Scientist
IBM

**COURSE
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their participation in the course.



07/08/2020

Tarun Kamboj

has successfully completed

Building Deep Learning Models with TensorFlow

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

A handwritten signature in black ink, appearing to read 'Alex Aklson', written over a horizontal line.

Alex Aklson, Ph.D.
Data Scientist

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08/01/2020

Tarun Kamboj

has successfully completed

AI Capstone Project with Deep Learning

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

A handwritten signature in black ink, appearing to read 'Alex Akson', written over a horizontal dotted line.

Alex Akson, Ph.D.
Data Scientist

A handwritten signature in black ink, appearing to read 'Joseph Santarcangelo', written over a horizontal dotted line.

Joseph Santarcangelo
Senior Data Scientist
IBM

COURSE CERTIFICATE



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