



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**



Mar 1, 2020

**PATRICK MICHL**

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

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.

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

Verify this certificate at:  
[coursera.org/verify/professional-cert/YAPY4EUR3EB3](https://coursera.org/verify/professional-cert/YAPY4EUR3EB3)