



6 Courses

**Exploratory Data Analysis  
for Machine Learning**

**Supervised Machine  
Learning: Regression**

**Supervised Machine  
Learning: Classification**

**Unsupervised Machine  
Learning**

**Deep Learning and  
Reinforcement Learning**

**Specialized Models: Time  
Series and Survival Analysis**



Aug 30, 2021

أحمد هيثم سلام

has successfully completed the online, non-credit Professional Certificate

## IBM Machine Learning

Machine Learning is one of the most in-demand skills for jobs related to modern AI applications, a field in which hiring has grown 74% annually for the last four years (LinkedIn). This Professional Certificate from IBM provides evidence that the above named individual developed skills in Machine Learning: Unsupervised Learning, Supervised Learning, Deep Learning, and Reinforcement Learning; including Time Series Analysis and Survival Analysis. This program consisted of 6 courses providing a solid theoretical understanding and considerable practice of the main algorithms, uses, and best practices related to Machine Learning.

*Mark J Grover*

Mark J Grover  
Digital Content Delivery  
Lead  
IBM Data & AI Learning

*Miguel M. Maldonado*

Miguel Maldonado  
Machine Learning  
Curriculum Developer  
Data and AI Learning

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/63SZZBMZ4T4D](https://coursera.org/verify/professional-cert/63SZZBMZ4T4D)