



4 Courses

Introduction to Machine Learning in Production

Machine Learning Data Lifecycle in Production

Machine Learning Modeling Pipelines in Production

Deploying Machine Learning Models in Production



May 24, 2023

**MOYINOLUWA IREANUOLUWA
OLUTOLA**

has successfully completed the online, non-credit Specialization

Machine Learning Engineering for Production (MLOps)

Congratulations! You have completed all four courses of Machine Learning Engineering for Production (MLOps) Specialization. In this Specialization, you learned how to conceptualize and maintain integrated systems. You mastered well-established tools and methodologies to build production systems that can handle relentless evolving data and continuously run at maximum efficiency. You're now familiar with the capabilities, challenges, and consequences of machine learning engineering in production and are ready to level up your career by participating in the development of leading-edge AI technology and solving real-world problems.

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.

Andrew Ng *MOLO* *Robert Crowe*

Andrew Ng,
Founder,
DeepLearning.AI

Robert Crowe
TensorFlow Developer
Engineer, Google

Verify this certificate at:

<https://coursera.org/verify/specialization/R83F8CH5G687>



COVENANT
UNIVERSITY



African Leadership Development Centre

This is to certify that

OLUTOLA MOYINOLUWA IREANUOLUWA

has completed the programme in

DIPLOMA IN LEADERSHIP DEVELOPMENT

Awarded October 2021

VICE-CHANCELLOR



DIRECTOR, ALDC



6 Courses

Introduction to Artificial Intelligence (AI)

Getting Started with AI using IBM Watson

Building AI Powered Chatbots Without Programming

Python for Data Science, AI & Development

Developing AI Applications with Python and Flask

Building AI Applications with Watson APIs



Aug 17, 2022

MOYINOLUWA IREANUOLUWA OLUTOLA

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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Passionate about gaining and sharing knowledge. More than a decade of experience in university-level academics. Worked on the development of multiple course modules, educational content, practical projects, and hands-on lab designs. Doctorate-level researcher in applied AI, machine learning, and deep learning applications.

Ramesh Sannareddy

Ramesh Sannareddy
Data Engineering
Subject Matter Expert
Skill-up Technologies

Joseph Santarcangelo
Senior Data Scientist
IBM

Antonio Cangiano

Antonio Cangiano
Software Developer and
Technical Evangelist
IBM Digital Business
Group

Tanmay Bakshi
AI Evangelist & Watson
Developer
<https://coursera.org/verify/professional-cert/TPZRQLBFMWQZ>

Rav Ahuja
Global Program
Director,
Skills Network



Jul 7, 2020

MOYINOLUWA IREANUOLUWA
OLUTOLA

has successfully completed

Introduction to the Internet of Things and
Embedded Systems

an online non-credit course authorized by University of California, Irvine and offered
through Coursera

A handwritten signature in black ink, which appears to read "Ian Harris", is positioned above a horizontal dotted line.

Ian Harris
Professor
Department of Computer Science

COURSE
CERTIFICATE



Verify at:

<https://coursera.org/verify/9RCXWERGXT59>

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



6 Courses

**Exploratory Data Analysis
for Machine Learning**

**Supervised Machine
Learning: Regression**

**Supervised Machine
Learning: Classification**

**Unsupervised Machine
Learning**

**Deep Learning and
Reinforcement Learning**

Machine Learning Capstone



Nov 14, 2022

MOYINOLUWA IREANUOLUWA OLUTOLA

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.

Rav Ahuja
AI & Data Science
Program Director
IBM Skills Network

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Verify this certificate at:

[https://coursera.org/verify/profession
al-cert/33SL9UV2VGCQ](https://coursera.org/verify/professional-cert/33SL9UV2VGCQ)



4 Courses

Initiating and Planning
Projects

Budgeting and Scheduling
Projects

Managing Project Risks and
Changes

Project Management
Project



Dec 7, 2020

MOYINOLUWA IREANUOLUWA OLUTOLA

has successfully completed the online, non-credit Specialization

Project Management Principles and Practices

A 4-course, on-demand Specialization authorized by University of California, Irvine Extension, and offered through Coursera.

Margaret M. Meloni

Margaret Meloni, MBA,
PMP
Instructor
University of California,
Irvine Division of
Continuing Education

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<https://coursera.org/verify/specialization/E3LM9NK9SWXU>



6 Courses

Crash Course on Python

**Using Python to Interact
with the Operating System**

**Introduction to Git and
GitHub**

**Troubleshooting and
Debugging Techniques**

**Configuration Management
and the Cloud**

**Automating Real-World
Tasks with Python**



Feb 21, 2022

MOYINOLUWA IREANUOLUWA OLUTOLA

has successfully completed the online, non-credit Professional Certificate

Google IT Automation with Python

This six-course certificate, developed by Google, is designed to provide IT professionals with in-demand skills -- including Python, Git, and IT automation -- that can help them advance their careers. The hands-on curriculum is designed to teach learners how to write code in Python, with a special focus on how this applies to automating tasks in the world of IT support and systems administration. Those who received this certificate passed all graded assessments with a score of 80% of above. They should have a strong foundation in how to use Git and GitHub, troubleshoot and debug complex problems, and apply automation at scale by using configuration management and the Cloud in order to prepare them for more advanced IT Support Specialist or Junior Systems Administrator positions.

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[https://coursera.org/verify/profession
al-cert/GEUZHFKFHZDU](https://coursera.org/verify/professional-cert/GEUZHFKFHZDU)



9 Courses

What is Data Science?

Tools for Data Science

Data Science Methodology

**Python for Data Science, AI
& Development**

**Databases and SQL for Data
Science with Python**

Data Analysis with Python

**Data Visualization with
Python**

**Machine Learning with
Python**

**Applied Data Science
Capstone**



May 31, 2023

MOYINOLUWA IREANUOLUWA OLUTOLA

has successfully completed the online, non-credit Professional
Certificate

IBM Data Science

In this Professional Certificate learners developed and honed hands-on skills in Data Science and Machine Learning. Learners started with an orientation of Data Science and its Methodology, became familiar and used a variety of data science tools, learned Python and SQL, performed Data Visualization and Analysis, and created Machine Learning models. In the process they completed several labs and assignments on the cloud including a Capstone Project at the end to apply and demonstrate their knowledge and skills.

Rav Ahuja
AI & Data Science
Program Director
IBM Skills Network

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Verify this certificate at:

[https://coursera.org/verify/profession
al-cert/GTQVGEXHY8UT](https://coursera.org/verify/professional-cert/GTQVGEXHY8UT)



6 Courses

Machine Learning with Python

Introduction to Deep Learning & Neural Networks with Keras

Introduction to Computer Vision and Image Processing

Deep Neural Networks with PyTorch

Building Deep Learning Models with TensorFlow

AI Capstone Project with Deep Learning



Jun 2, 2023

MOYINOLUWA IREANUOLUWA OLUTOLA

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

Rav Ahuja
AI & Data Science
Program Director
IBM Skills Network

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Verify this certificate at:
<https://coursera.org/verify/professional-al-cert/SD3BNPTDP34L>



5 Courses

**Technical Support
Fundamentals**

**The Bits and Bytes of
Computer Networking**

**Operating Systems and You:
Becoming a Power User**

**System Administration and
IT Infrastructure Services**

**IT Security: Defense against
the digital dark arts**



Dec 1, 2020

MOYINOLUWA IREANUOLUWA OLUTOLA

has successfully completed the online, non-credit Professional
Certificate

Google IT Support

Those who earn the Google IT Support Professional Certificate have completed five-courses, developed by Google, that include hands-on, practice-based assessments and are designed to prepare them for entry-level roles in IT support. They are competent in foundational skills, including troubleshooting and customer service, networking, operating systems, system administration, and security.

Ananda Perera

Google

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Verify this certificate at:

[https://coursera.org/verify/profession
al-cert/WRQK6HEEFC75](https://coursera.org/verify/professional-cert/WRQK6HEEFC75)



4 Courses

Exploratory Data Analysis
for Machine Learning

Supervised Machine
Learning: Regression

Supervised Machine
Learning: Classification

Unsupervised Machine
Learning



Sep 13, 2022

MOYINOLUWA IREANUOLUWA OLUTOLA

has successfully completed the online, non-credit Specialization

IBM Introduction to Machine Learning

This specialization will help you realize the potential of machine learning in a business setting. There will be a focus on helping you gain the skills that will help you succeed in a career in machine learning and data science. You will be able to realize the potential of machine learning and artificial intelligence in different business scenarios. You will also be able to identify when to use machine learning to explain certain behaviors and when to use it to predict future outcomes. You will also learn how to evaluate your machine learning models and to incorporate best practices.

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Xintong Li *Joseph Santarcangelo*

Joseph Santarcangelo
Senior Data Scientist
IBM

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

Svitlana-

Svitlana Kramar
Data Science Content
Developer
Skills Network

Verify this certificate at:

<https://coursera.org/verify/specialization/WVRF6JQ8ZZFU>