

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 Al 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.

John Jy MO L Leavence Officency

Andrew Ng, Founder, DeepLearning.Al

Robert Crowe TensorFlow Developer Engineer, Google

Verify this certificate at: https://coursera.org/verify/specialization/R83F8CH5G687





African Ceadership Development Centre

This is to certify that

OLUTOLA MOYINOLUWA IREANUOLUWA

has completed the programme in

DIPLOMA IN LEADERSHIP DEVELOPMENT

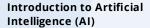
Awarded October 2021

VICE-CHANCELLOR



DIRECTOR, ALDC





Getting Started with AI using IBM Watson

Building AI Powered Chatbots Without Programming

Python for Data Science, Al & 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 Al

This Professional Certificate provides a firm understanding of Al, 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 Al powered customer support chatbot on a website. Learners competing this specialization have picked up practical Python skills to work with Al and have used IBM Watson Al 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 Skill-up Technologies university-level academics. Worked on the development of multiple course modules, educational content, practical projects, and hands-on lab designs. Doctoratelevel researcher in applied AI, machine

Ramesh Sannareddy

Ramesh Sannareddy Data Engineering Subject Matter Expert

learning, and deep

learning applications.

Joseph Santarcangelo Senior Data Scientist **IBM**

Antonio Cangiano

Antonio Cangiano Software Developer and Technical Evangelist **IBM Digital Business** Group

Janmay Bakshi

Tanmay Bakshi

Rav Ahuja Global Program y/profession Director,

Skills Network



COURSE CERTIFICATE

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



for Harri

Ian Harris Professor Department of Computer Science

Verify at: https://coursera.org/verify/9RCXWERGXT59

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



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
Al & Data Science
Program Director
IBM Skills Network

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Verify this certificate at: https://coursera.org/verify/profession al-cert/33SL9UV2VGCO



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.

Mayort M Mehi)

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

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Verify this certificate at: https://coursera.org/verify/specializat ion/E3LM9NK9SWXU



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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Verify this certificate at: https://coursera.org/verify/profession al-cert/GEUZHFKFHZDU





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 handson 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.

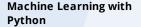


Rav Ahuja Al & Data Science Program Director IBM Skills Network

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Verify this certificate at: https://coursera.org/verify/profession al-cert/GTOVGEXHY8UT





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

Al 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 Al 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 Al & Data Science Program Director IBM Skills Network

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Verify this certificate at: https://coursera.org/verify/profession al-cert/SD3BNPTDP34L



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.

Amarla Poros by

Google

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Verify this certificate at: https://coursera.org/verify/profession al-cert/WROK6HEEFC75



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.

Xintong Li gentarment

Joseph Santarcangelo Senior Data Scientist IBM

Mark & Brover Miguel M. Maldonado

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

Miguel Maldonado Machine Learning Curriculum Developer Data and Al Learning

(Svitlana-

Svitlana Kramar Data Science Content Developer Skills Network

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Verify this certificate at: https://coursera.org/verify/specialization/WVRF6JQ8ZZFU