



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**



Mar 13, 2021

MUHAMMAD RIZAL RIFAI

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.

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.

Google

Verify this certificate at:
coursera.org/verify/professional-cert/2NTW8F55J5EX



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**



Mar 21, 2021

MUHAMMAD RIZAL RIFAI

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.

Google

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Verify this certificate at:
coursera.org/verify/professional-cert/Y2BLX5BA4PRY



3 Courses

Mathematics for Machine Learning: Linear Algebra

Mathematics for Machine Learning: Multivariate Calculus

Mathematics for Machine Learning: PCA

Imperial College
London

Mar 27, 2021

MUHAMMAD RIZAL RIFAI

has successfully completed the online, non-credit Specialization

Mathematics for Machine Learning

A sequence of 3 courses on the prerequisite mathematics for applications in data science and machine learning. Successful participants learn how to represent data in a linear algebra context and manipulate these objects mathematically. They are able to summarise properties of data sets and map them onto lower dimensional spaces with principal component analysis. Finally they can solve optimisation problems and use this skill to train models for describing data such as simple neural networks.

David Dye
Professor of Metallurgy
Department of
Materials
Imperial College London

Samuel J. Cooper
Lecturer
Dyson School of Design
Engineering
Imperial College London

Marc Deisenroth
Senior Lecturer
Department of
Computing
Imperial College London

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Verify this certificate at:
coursera.org/verify/specialization/PA7WC3CKVB2M