



3 Courses

Mathematics for Machine
Learning: Linear Algebra

Mathematics for Machine
Learning: Multivariate
Calculus

Mathematics for Machine
Learning: PCA

Imperial College
London

Mar 26, 2022

**MUHAMMAD HASYIM ABDILLAH
PRONOSUMARTO**

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.

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.

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

Verify this certificate at:

coursera.org/verify/specialization/EWHCUV87SESV