



3 Courses

Mathematics for Machine Learning: Linear Algebra

Mathematics for Machine Learning: Multivariate Calculus

Mathematics for Machine Learning: PCA

Imperial College  
London

Jun 17, 2022

**Saurav Das**

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

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.

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**Imperial College  
London**

May 20, 2022

**Saurav Das**

has successfully completed

**Mathematics for Machine Learning: Linear Algebra**

an online non-credit course authorized by Imperial College London and offered through  
Coursera



David Dye, Samuel J. Cooper, and A. Freddie Page

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**Imperial College  
London**

Jun 7, 2022

**Saurav Das**

has successfully completed

**Mathematics for Machine Learning: Multivariate  
Calculus**

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David Dye, Samuel J. Cooper, and A. Freddie Page

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participation in the course.

**Imperial College  
London**

Jun 17, 2022

**Saurav Das**

has successfully completed

**Mathematics for Machine Learning: PCA**

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Coursera



Marc Deisenroth  
Lecturer in Statistical Machine Learning  
Department of Computing  
Imperial College London

**COURSE  
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