

3 Courses

Mathematics for Machine Learning: Linear Algebra

Mathematics for Machine Learning: Multivariate Calculus

Mathematics for Machine Learning: PCA

## Imperial College London

Aug 19, 2022

## **Shantanu Prashant Umrani**

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
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Imperial College London

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