

COURSE DETAIL

MACHINE LEARNING AND DATA SCIENCE SKILLS FOR DATA-DRIVEN DECISION MAKING

Country

United Kingdom - England

Host Institution

University of London, Queen Mary

Program(s)

Summer at Queen Mary London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

116

UCEAP Course Suffix

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UCEAP Official Title

MACHINE LEARNING AND DATA SCIENCE SKILLS FOR DATA-DRIVEN DECISION MAKING

UCEAP Transcript Title

MACHINE LEARN&DATA

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This is a practical course that introduces the concepts of machine learning and application of algorithms to several types of available data samples. Students are introduced to the Python programming language and key concepts related to the TensorFlow (TM) programming toolkit from Google. Programming skills are developed during this course to explore the potential benefits of deep learning algorithms. Students learn how to use scientific computing methods to handle, cleanse, transform, and validate data with the purpose of gaining insights from a wide range of datasets; how to present available data using charts, graphs, tables and more sophisticated visualization tools; how to model data and perform statistical analysis and ad hoc queries; and how to report on key findings and how to summarize and communicate results to mixed audiences.

Language(s) of Instruction

English

Host Institution Course Number

SUM404N

Host Institution Course TitleMACHINE LEARNING AND DATA SCIENCE SKILLS FOR DATA DRIVEN
DECISION MAKING**Host Institution Course Details**<https://www.qmul.ac.uk/summer-school/what-can-i-study/modules/machine-learning-...>**Host Institution Campus****Host Institution Faculty**

School of Physics and Astronomy

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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