

COURSE DETAIL

DATA ENGINEERING FOR THE SOCIAL WORLD

Country

United Kingdom - England

Host Institution

London School of Economics

Program(s)

Summer at London School of Economics

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

103

UCEAP Course Suffix

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UCEAP Official Title

DATA ENGINEERING FOR THE SOCIAL WORLD

UCEAP Transcript Title

DATA ENGINEERING

UCEAP Quarter Units

5.50

UCEAP Semester Units

3.70

Course Description

Data science has unlocked exciting possibilities for social scientists through its diverse toolkit, including big data analysis, visualisation, and machine learning models, enabling them to extract valuable insights from their data. Yet, the success of a data-driven project hinges on data quality. This is where data engineering plays a pivotal role. Professionals must ensure that their acquired data is sufficient and accurate and must be adaptable to handle 'messy data' effectively. A substantial portion of time in data-driven projects (anecdotally 80%) is dedicated to cleaning and pre-processing data, with only 20% said to be devoted to building, evaluating, and deploying machine learning models. Despite the emergence of new AI technologies, which promise to automate many coding tasks, data manipulation is likely to remain an indispensable skill due to the inherent messiness of real-world data. By the end of this course, students will be proficient in producing a website to communicate your collected data and showcase your newly acquired data-wrangling abilities.

Language(s) of Instruction

English

Host Institution Course Number

ME204

Host Institution Course Title

DATA ENGINEERING FOR THE SOCIAL WORLD

Host Institution Course Details

<https://www.lse.ac.uk/study-at-lse/summer-schools/summer-school/courses/research...>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Data Science Institute

Course Last Reviewed

2025-2026

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