



Data Science Principle

DATA9009

Times: Lectures: Wednesday 2pm-3pm in LC0.11 and Thursday 9am-10am in F2.10

Lab: Monday 11am-1pm in C134x

CRN: 31543

This module is an introduction to exciting and new area of Data Science and Analytics.

Some of the topics and areas of interest that will be explored are:-

- how to clean, transform and deal with missing data
- perform EDA (Exploratory Data Analysis)
- mathematical models and algorithms that help us find patterns and develop insights from a dataset
- understand how to optimise these algorithms using calculus etc.
- build a number of data analytic models in the labs using R open source software and use these to solve interesting data problems
- data in society – Impact of AI and data protection, privacy and ethics

No prior modules are necessary but a good knowledge of mathematics and computer science is required, and an interest in problem solving would be great.

For further information, please contact Mr Aengus Daly: aengus.daly@mtu.ie