

COMP2200/COMP6200 Lecture 1c – What is Data Science?

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What is data science?

Applying the scientific method to commercial data

But what does that involve?

Data scientists often work with a lot of data

RECOVERY

<https://www.recoverytrial.net/>

- Trial with 50,000 patients on Covid treatments
- One of the largest medical trials in history

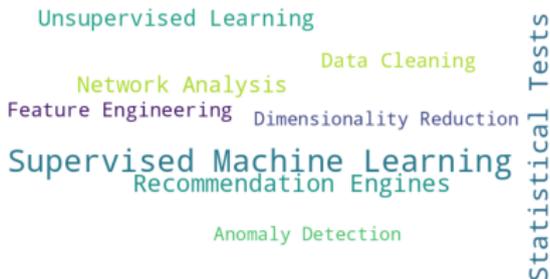


<https://www.nature.com/articles/nature11421>

- (2010) Ran a test with 61 million users to encourage voting
- Not even a particularly large data science project

Different scale of data: data scientists often need different skills and tools compared to typical statisticians

Working with modern analyses



- **Unsupervised Learning** = “break data into groups”
- **Supervised Machine Learning** = “make a predictive model”
- **Statistical tests** = “did the change have any effect?”
- **Network analysis** = “understand relationships and flows”
- **Recommendation engines** = “if you like this, you’ll like that”

Data scientists and statisticians only have a small amount of overlap in the algorithms they use