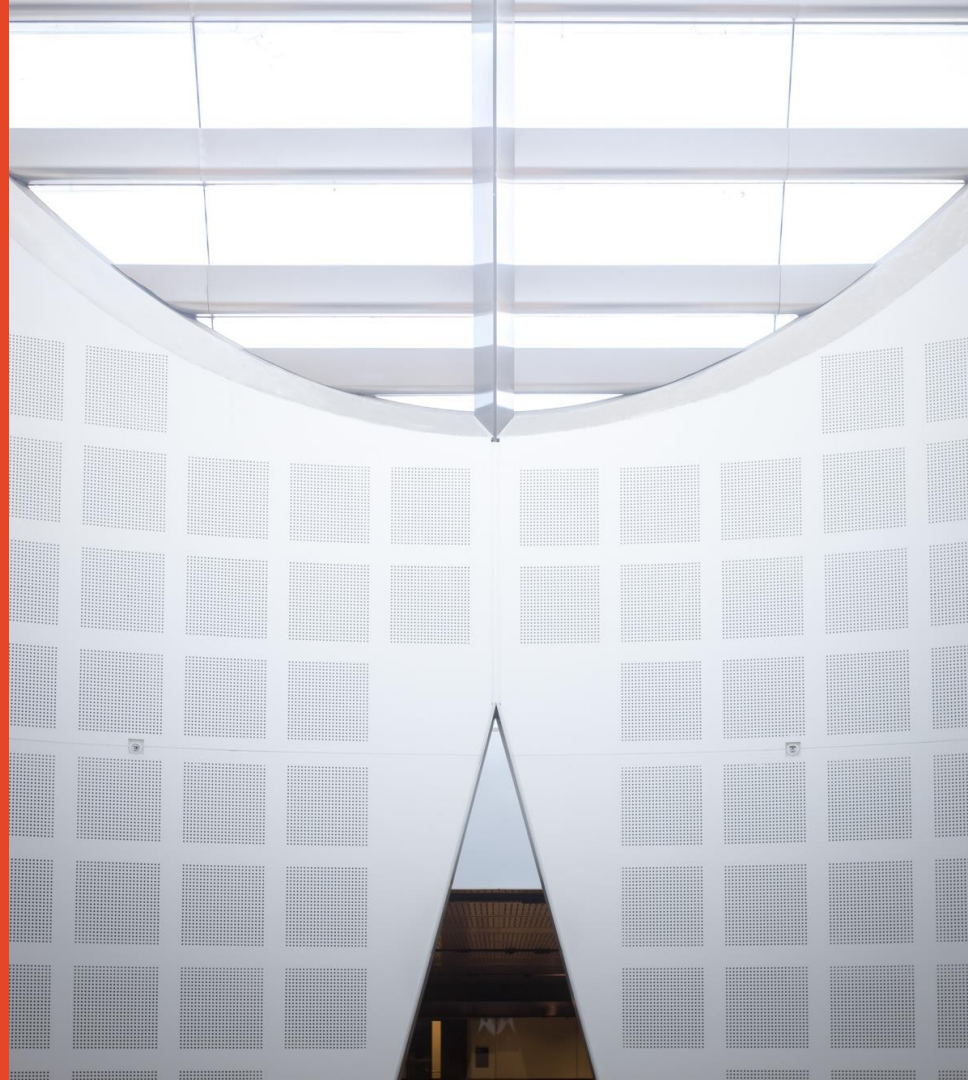


OCMP5310: Principles of Data Science

Week 5 Live Session

Presented by
Daniela Rivas



REVIEW OF LAST WEEK

Week 4

- Unsupervised learning: Clustering.
- Supervised learning: Regression and classification.

QUESTIONS?

WEEK 5: SESSION ACTIVITY

Week 5

- Text classification.
- General model evaluation.

Text Classification

Activity

- In Canvas, go to:
 - Exercise: Text Driven Forecasting.
- Download Jupyter Notebook:
 - `exercises_unstructured_data.ipynb`
- Download CSV files:
 - `movies2013.csv`
 - `movies2014.csv`

Model Evaluation

Activity

- In Canvas, go to:
 - Exercise: Model Evaluation.
- Download Jupyter Notebook:
 - `from_data_to_decisions.ipynb`

PROJECT STAGE 3 AND PRESENTATION

Project Stage 3

Project Stage 3 (15% overall mark)

- The objective of Stage 3 is to complete the analysis or model building to solve the problem you defined in Stage 1.
- **Due:** Week 6, 28 May 2023.
- **Tasks:**
 - Defining experiment setup.
 - Implementing your proposed approach.
 - Evaluating and analysing your approach.
- **Submissions:**
 - Report (4 pages max.).
 - Code.

Report

- No more than 4 pages.
- **Section 1: Setup**
 - State your research question(s).
 - Describe how you will quantify reliability. If appropriate, describe how you will measure effectiveness.
 - Identify datasets and the data you derived from them.
- **Section 2: Approach**
 - Describe your proposed model and any benchmark models for comparison.

Report

- **Section 3: Results**

- Summarise results, reliability and comparison to any benchmark analyses or models.
- Critically analyse results.

- **Section 4: Conclusion**

- Conclude with what you have learned from this study which would improve yourself as a data analyst.

Code

- Your code used to build your predictive model.
- Format: Jupyter Notebook (.ipynb), python script (.py) or similar.

Presentation

Presentation (5% overall mark)

- Give a brief overview of your project, the data you investigate, and the current status of your work.
- **When?**
 - Week 6, 22 May 2023, during Live Session.

QUESTIONS?