

## Thesis

### NLP Data Collection and preproces...

- Download Financial News Data
- Tokenise
- Vectorise or embed data
- Build NLP Sentiment Models
- Optimise NLP Sentiment Models
- Evaluate NLP sentiment Models
- Progress Meeting 1

### Data Collection and preprocessing

- Collect data from defined sources
- Deal with missing values
- Add financial features
- Add domain knowledge features
- Match frequencies to target data
- Add created NLP Features
- Add other expanding features
- Progress Meeting 2

### Modelling

- Build feature extraction methods
- Build baseline models
- Build ESRNN
- Hyperparameter optimisation
- Build evaluation metrics
- Model Training
- Progress Meeting 3
- Model Evaluation

### Report

- Finish first draft
- First draft to supervisor
- 1st Review
- Address Comments
- 2nd Review
- Address Comments
- Submit Final Report

