

Experimental Methodology in ML/NLP

Natural Language Understanding Lab

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Objectives

- Understanding:
 - the role and types of evaluation in NLP/ML
 - the lower and upper bounds of performance
 - correct usage of data for experimentation
 - evaluation metrics
- Learning how to use **scikit-learn** to perform a text classification experiment
 - provided baselines
 - text vectorization
 - evaluation methods

Outline

③ Classification with `scikit-learn`

- Loading and Inspecting Data Set
- Splitting Data Set
- Training and Testing a Model
 - Baselines
 - *Exercise*: 15 min
 - Training a Model
 - Evaluating a Model
 - *Exercise*: 15 min
- Text Vectorization

④ ***Lab Exercise***: Text Classification: 30 min