Course Projects

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Final Project

- Groups of 3-4
- Sign up here:
 - https://goo.gl/forms/FK6Yv84ac2fhFyH42
- Scope: on the order of one of the programming assignments
 - But, need to define the problem you are addressing, propose a solution, design evaluation and write up results in a formal report.

Selecting a Topic

- Find a problem/application you are interested in where you think ML can help.
- Experiment with one of the algorithms we discussed in class.
- First question: what is the dataset?

Datasets

- Sentiment Analysis (and other NLP) Datasets:
 - http://nlpprogress.com/english/ sentiment analysis.html
- Semeval Tasks:
 - http://alt.qcri.org/semeval2018/index.php?
 id=tasks
- Kaggle Competitions
 - https://www.kaggle.com/competitions

NLP-progress

Repository to track the progress in Natural Language Processing (NLP), including the datasets and the current state-of-the-art for the most common NLP tasks.

SemEval-2018

International Workshop on Semantic Evaluation
Sponsored by SIGLEX

Requirements

- 4 Page Report
 - Due December 10
- Briefly describe the problem you are solving and your solution.
- Include empirical analysis of your approach
 - Report performance on dev / test set
 - Compare against some reasonable baseline method.

Advice

- First question: is the data available?
- Try to get a simple baseline working as early as possible to determine whether your project idea is feasible.
- Start with a manageable-sized dataset
 - Then scale up...

Grading Rubric

For the reasonably well-prepared reader, is it clear what was done and why? Is the report well-written and well-structured?

Clarity (1-5):

How original is the approach? Does this project break new ground in topic, methodology, or content? How exciting and innovative is the work that it describes?

Originality / Innovativeness (1-5):

First, is the technical approach sound and well-chosen? Second, can one trust the claims of the report -- are they supported by proper experiments, proofs, or other argumentation? Soundness / Correctness (1-5):

Does the author make clear where the problems and methods sit with respect to existing literature? Are any experimental results meaningfully compared with the best prior approaches? Meaningful Comparison (1-5):

Overall (1-5):

Group Formation Time

• (5 minutes)