

CS 410 Text Information System: Final Project Proposal

TEAM PYTHON

Team members:

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Project name:

In-class Text Classification Competition

Answer required questions:

- Are you prepared to learn state-of-the-art neural network classifiers?
 - Yes.
- Name some neural classifiers and deep learning frameworks that you may have heard of. Describe any relevant prior experience with such methods.
 - Neural classifiers: DNN, RNN, LSTM, and CNN.
 - Deep learning frameworks: TensorFlow, PyTorch
- Models we may explore:
 - We may start with a self-developed DNN architecture to get to know about the dataset. Then we may move on to implement some state of art CNN architectures and tune the learning parameters to achieve a higher accuracy. We may also use some pretrained model to expediate the model training.

Relevant prior experience:

The team members are familiar with Python language and have some limited experience with mini machine learning projects during Machine Learning related courses. We chose this competition to gain some hands on in text classification and to explore machine learning approaches.

Programming language: Python

Timeline:

- Model buildup: week 11 - 12
- Training and testing: week 12-14
- Model improvement: week 14-15
- Final Report: week 15-16