

# Natural Language Processing (CS535) Fall 2019

## Homework 4

Due: 17<sup>th</sup> Nov 2019

### Text Classification Using Deep Learning

This homework requires you to train and evaluate a sequence based deep learning model for text classification. Please select a problem from one of the following SemEval 2020 tasks.

1. SemEval 2020 Task 4 - Commonsense Validation and Explanation  
(<https://competitions.codalab.org/competitions/21080>)
2. SemEval 2020 Task 11  
"Detection of Propaganda Techniques in News Articles"  
(<https://propaganda.qcri.org/semeval2020-task11/>)
3. Task 8: Memotion Analysis (<https://competitions.codalab.org/competitions/20629>)

You can use one of the following models (suggested but not limited) for training:

LSTM

BiLSTM

BERT

LSTM or BiLSTM with attention

You can use pretrained embedding (WordToVec or Glove or Elmo) or train the embeddings yourself on the given data of task.

### Task Selection

At most 6 students can work on any one of the above tasks. Please email me your selected task and name. Tasks will be assigned on FCFS basis.

**Submission:** Submit your code file on slate. Report accuracies of your results in comments in code file.