COSC 426 Final Project Proposal Template

Introduction/ Motivation

- What is the big picture question you are trying to answer/ problem you are trying to solve? Why is this an interesting and worthwhile question to answer/ problem to work on?

- What is the specific question you will pursue? Why? (Note: you will need to pick something that is feasible to answer in 3-4 weeks)

- What are all the possible results/outcomes of your project? Do you think one (or few) of these results/outcomes are more likely than others? Why?

- How do your possible outcomes relate to your original question you are trying to answer/ problem you are trying to solve?

Background/ Literature review

Find at least **three papers** related to your project. For each project write a paragraph or two summarizing:

- What were the goals of that paper? How is it related to your project?

- What methods did the paper use?

- What were the conclusions?

- What is different about your proposed research and previous work?

Google scholar (or other comparable database search) is a better place to look than standard search: you are less likely to find blogposts with unverified content on Google scholar. Note, on Google Scholar you might see a lot of preprints from arxiv, even if they were also published elsewhere. It is good practice to try and find the most recent version of a paper. The general rule of thumb you should use: peer reviewed published papers are more credible than preprints.

Planned methods

Overall approach

What are the **sequence of steps** you will need to take to go from a dataset to a results table/ figure? How do these steps map onto the different modes in NLPScholar?

Dataset

- What datasets will you use for each of the steps?

- What are the preprocessing steps required? Will you use the entire dataset?

- Ho large is the final dataset you want to use?

Model

- What model will you use?

- What type of model is it on NLPScholar?

- Will you have to finetune a model? If so, how long will finetuning it take?

Evaluation metrics

- How will you evaluate your model's performance (give an example that references model outputs)?

- What counts as success? What would negative results look like (give a concrete example)?

- What conclusions (if any) can you draw from negative results?

Minimal working example

Create a **public github repository (shared with your group)** with the following:
- Sample tsv files that you will input into NLPScholar for each of the different steps (formatted exactly as is required).
- README documents that outline in detail the sequence of steps required to go from the dataset to the sample tsv files.

- Config files for each of the steps.
- Turing job submission files for each of the steps.
- README document(s) outlining how you will go from the output of NLPScholar to your evaluation metrics / table/ figures.