

CSC 4309 Project Requirements and Guidelines

Project Guidelines

Your research project will study an approach to address some NLP task or problem and will include empirical and/or qualitative evaluation (i.e., human judgement). Keep in mind the relatively short time available and available data when considering the feasibility of your project. Identify intermediate goals to complete this project.

Some guidelines:

- Describe and motivate your task
- Argue why your problem is important
- Argue why your problem is challenging
- Argue why your approach is reasonable
- Describe what you did so far
- Show us your data: use examples for all parts of your presentation
- If your task is multi-disciplinary (e.g., NLP + security), describe what aspects of language will play a role
- Description and motivation of your technique and method
- Discuss related work that inspired you and/or justified your approach
- Discuss feasibility given available resources (relying on prior work is valid)
- Identify at least one corpus you will use (more is better!). You may collect and create your own corpus. If you collect your own corpus, describe the process and do a quick feasibility study
- It is recommended that you use examples and figures to illustrate the problem and your approach

Some examples of feasible small research projects (as per selected areas for paper reviews)

- Language modeling
 - Generating poetry/idioms from language models
 - Generating lyrics from language models
 - Creating abstracts/summary of articles using language models
 - Using word embeddings to represent words as vectors
- Text categorization
 - Spam filtering/detection
 - Email classification/clustering
 - News headlines topic classification/clustering
- Text Summarization
 - Research articles
 - Newspaper articles
- Word Sense Disambiguation
 - WSD for parallel/bilingual texts
 - WSD for poetry generation
- Named Entity Recognition
 - NER in emails
 - NER in minutes of meeting
 - NER in medical documents

- Sentiment Analysis/Text analytics
 - Movies/product reviews
 - Stock prediction
 - Emotion icons

Project Presentations

To be determined

Venue : ICT TL-E4-01

Please describe your project and defend it. Each group will be allocated a maximum of 12 minutes, followed by an additional 3 minutes of Q&A session. I will stop you after 13 minutes. Each group will be randomly assigned a presentation slot and need only to attend their own slot. All groups are required to arrive at least 10 minutes before the presentation time to conduct the necessary setup for your project presentation. Please respect the time of others by starting and finishing your presentation on time.

It is recommended that you use examples and figures to illustrate the problem and your approach. Please present your approach, experiments and analysis of results. You may dedicate less time to the related work.

Technical Report

Due: To be determined

The technical report is limited to a maximum of 8 pages (including references) in ACM format. The report should be written as a research paper. Please include your slides in PDF form together with your source codes/models and upload them together as a `zip` file.

This is a short report, so organize your content well. It is recommended to fashion your report after good short papers as per your paper reviews. There are plenty of excellent examples!

- Introduction, including problem statement and motivation
- Related work (minimal)
- Technical background
- Formal well-motivated description of your approach
- Experimental setup & implementation example
- Results
- Error analysis