CS 584 Project Guidelines

Project topic: You can determine the topic of the course project. But the projects should be related to the common NLP tasks and applications, and should be well formulated and defined.

1. It can be related to your research projects or can be the topic that you are interested in.
2. If you don't have any project idea, you can choose to work on the project that are predefined by the instructor.

Note: the course project in this course cannot be the course project you submitted for other courses in current or previous semesters. It should be only submitted to this course as the course project. You will get zero points for projects if you submit the similar/same course as in other courses.

Team: The project can be a group project. **Each project group can have 1-3 students**. Each team member should have sufficient contribution in the project. You can team up with classmates based on your background and interests. The team should be finalized before submitting the project proposal, and you will need to include the team information in the project proposal. After submitting the proposal, the team should not be changed any further.

Project Requirements: Please use the provided project report template for all submissions. Please check the deadlines for each in the course syllabus. Please find more details for project proposal below. The requirements for midterm report, final report, and presentation will be provided before their deadlines.

1. Project proposal: The proposal should be 1-2 pages. Please keep it informative and concise.
2. Midterm project report
3. Final project report and codes
4. Presentation

A survey about the project: This survey is for you to fill out before you submit your project proposal. It will be helpful for the instructor to know the total number of teams and projects. Additionally, it will be helpful for designing the predefined projects for students who plan to work on. The project information you submit in the survey can still be changed when you submit the project proposal. Please submit the survey before next lecture (Sep 18th, 2023).

1. Link: https://forms.gle/XVJGjyxCUivquhbq5
2. Please provide the team information and the project topic information.
3. For teams with 2 or 3 students, please make sure to have just one student to submit this survey and list all team members.

Project Proposal Guidelines

A comprehensive project proposal is a fundamental prerequisite prior to the commencement of project work. It is a critical preparation step for the midterm and final project report. The proposal should include the key points of your project and provides a structured outline for your project's execution and evaluation. Below are the basic components that you should consider.

1. **Concise and descriptive title**: The title should reflect the core objectives and focus of your project.
2. **Introduction**: Provide a concise abstract that offers a brief overview of your project. Highlight the main objectives, methodologies, and anticipated outcomes. Discuss relevant previous work, existing challenges related to your project.
3. **Problem formulation:** Formally formulate the task as a machine learning task (e.g., binary classification, seq2eq, multi-class classification, regression, etc.). You can describe this task using equations or definitions if needed.
4. **Methods**: Detail the methodologies, techniques, and tools you intend to employ to achieve your project objectives. Outline any innovative approaches you're considering.
5. **Datasets and Experiments**: Specify the datasets you will be utilizing in your project. Describe the experiments you plan to conduct, such as the parameters you'll study and the metrics you'll use for evaluation.
6. **Project management**: Introduce the members of your project team, including their roles and responsibilities. Outline the timeline of your project, highlighting key milestones and deadlines.
7. **Key references**: Include a list of essential references related to your project.

Note: *For teams with multiple students*, each student should have sufficient contributions to the course project. For example, each student can explore one method to solve the same task. In the experiments, a comparison of different methods can be conducted. Another example is that you can explore the performance of the same method on different datasets, and conduct a comparison analysis of the same methods on different datasets.