CSCE 638: Project Proposal

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Instructions

You will write a **2-page** project proposal (excluding references) on the topic of your choice. Please use the Association for Computational Linguistics (ACL) LaTeX template (link) and follow the setup provided in the LaTeX assignment.

The course project is team-based. Each team must have **at least 3 members** and **at most 4 members**. You can choose either *Research Track* or *Application Track.*

Research Track

The project should focus on research and exploring *new ideas* for a specific research question. The expectation of the project is a conference workshop-level submission. Some example topics include:

- Choose a topic by selecting an existing problem discussed in class and developing new ideas around it.
- Identify any unresolved challenges from a published paper and improve the proposed approach.
- Participate in *ongoing* shared tasks at SemEval, CoNLL, Kaggle, or relevant workshops, and present and discuss the new techniques you apply.

If you are not sure if the topic is okay or not, please discuss it with the instructor.

The proposal should include the following:

- **Introduction**: project scope, challenges, novelty, expected contribution.
- **Related Work**: related literature, current research progress, what's missing.
- **Methodology**: detailed problem definition, proposed approach.
- **Expected Experiments**: planned experiments, datasets, baselines, expected results.
- **Expected Timeline**: timeline.

Application Track

The project should focus on applying NLP techniques to a new application. The expectation of the project is a system with several user-oriented features, such as a product prototype. Some example topics include:

- Design a system with a user interface that applies NLP techniques to solve a real-world problem.
- Build a Chrome extension that applies NLP techniques to assist users in real time.
- Develop an App with compelling features that requires NLP techniques.

If you are not sure if the topic is okay or not, please discuss it with the instructor.

The proposal should include the following:

- **Introduction**: project scope, importance, challenges, expected contribution.
- **Related Work**: related existing applications, what's missing.
- **Designs**: detailed application design, required NLP techniques and models.
- **Expected Outcomes**: planned outcomes and features, planned demo, evaluation metrics.
- **Expected Timeline**: timeline.

Submission Instructions

Please submit a *group submission* to Gradescope. Only one submission is needed for one group. There is no need for every teammate to submit a separate proposal. Please also sign up your team here.