
AI6130: Large Language Models

Project Proposal Instructions

- (a) **Team Size:** Each team should generally contain 3-6 students. But, if the project is significant enough, then more people may be allowed; please confirm with the instructor.
- (c) **Proposal:** Some information you should think about when determining the topic:
- **Goals/Objectives:** Describe the goals of your project in terms of a scientific question you are trying to answer – e.g., your goal may be to investigate whether a particular LLM or technique performs well at a certain task, or whether you can improve a particular model by adding some new variant, or (for theoretical/analytical projects), you might have some particular hypothesis that you seek to confirm or disprove. Otherwise, your goal may be simply to successfully adapt a LLM, and show that it performs well on a given task. Briefly motivate why you chose this goal – why do you think it is important, interesting, challenging and/or likely to succeed? If you have any secondary or stretch goals (i.e. things you will do if you have time), please also describe them.
 - **Tasks:** What tasks/applications you intend to consider for your model. Describe the task clearly (i.e., give an example of an input and an output, if applicable)
 - **Data:** The dataset(s) you will use. What kind of preprocessing they need. If you plan to collect your own data, describe how you will do that and how long you expect it to take.
 - **Models:** Describe the models and/or techniques you plan to use. Make it clear which parts you plan to implement yourself, and which parts you will download from elsewhere. If there is any part of your planned method that is original, make it clear.
 - **Baseline(s):** What baselines will you use to compare your model with? Make it clear if these will be implemented by you, downloaded from elsewhere, or if you will just compare with previously published scores.
 - **Evaluation:** How will you evaluate your results? Specify at least one well-defined, numerical, automatic evaluation metric you will use for quantitative evaluation. What existing scores will you be comparing against for this metric? For example, if you're reimplementing or extending a method, state what score(s) the original method achieved; if you're applying an existing method to a new task, mention the state-of-the-art performance on the new task, and say something about how you expect your method to perform compared to other approaches. If you have any particular ideas about the qualitative evaluation you will do, you can describe that too.
 - **Possible Submission (optional):** Do you plan to submit the work to a conference or journal in your field? When is the deadline?