

Project Proposal

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Project proposals should be 1 page long (not including references) and contain the following information:

- **Motivation:** What high-level problem are you studying? Why is it important?
- **Background:** What previous work exists on your topic? How does your proposed project differ from these existing works? Note: If you have prior experience working on this problem, please clearly describe how your proposed work for this class project differs from your prior work.
- **Proposed Work:** What do you plan to do? What methods (theoretical tools, algorithms, etc.) will you use and why will you use them?
- **Timeline:** What is your timeline for performing this work?
- **Deliverables / Evaluation:** What is the expected outcome of your work? How will you evaluate the quality of your work?
- **Data:** If your project involves data, what data are you using? How did you obtain this data? Why is this data interesting / relevant to your problem? What computing resources will you be using to analyze this data?
- **Software Tools / Libraries:** What (if any) software will be used for this project? Please describe any third-party software libraries you plan to use.
- **Team:** Who is working on this project (at most two students can work on a project)?

In addition to this written proposal, each group is required to give a short (5-10 minute) powerpoint/keynote presentation to the class describing their proposed work. Please make roughly 5 slides that cover Motivation, Background, Proposed Work / Timeline, Deliverables / Evaluation.