

UTMIST Project Proposal Template

Created by Arsh Kadakia

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1 Template Introduction

This template is meant to serve as a guide for the creation of engineering project proposals. For each section, a list of questions that should be answered are provided. While it is preferred that project proposals follow the structure outlined below, other formal report structures are also accepted.

If you have a project and are interested in leading a machine learning project, this guide is perfect for translating your vision into a concrete project outline.

For any questions or comments, message the #engineering channel on the UTMIST Discord.

2 Structure

2.1 Abstract

- What is the core problem your project will attempt to solve?
- What is the current precedent (if any) that attempts to tackle the problem?
- What is the solution that you would like to try as part of the project?
- How is the solution better than the current precedent?
- If your solution works well, what is its expected impact in the field?

2.2 List of Resources

- Discuss (and preferably link) any datasets that will be used in the project.
- Discuss any articles or papers that are used to guide the technical aspect of the solution.
- Discuss any technologies used to implement the solution, whether languages or hardware.
- Discuss any needs for advisors or mentoring for any aspect of the project.
- Discuss any project management tools used to manage the progression of the project.

2.3 Summary of Specific Goals

- Create a general timeline composed of sub-goals for the project (note that the final conference is expected to occur in March).
- For each subgoal, briefly discuss the steps that go into them.
- What are indicators that your project has been successfully completed?

2.4 Expectations for Teammates & Advising

- What are the qualities you look for in good project developers?
- What are the technical skills you look for in good project developers?
- What is the expected team size for your project?
- What is the time commitment required for project developers?