

Deadline: Oct 21, 2024 (11:59 PM)

Format of mid-sem project report:

Abstract (200 words)

Provide a concise summary of your project. The abstract should include:

- Problem statement
- Motivation
- Methodology
- Current status
- Future plan

Introduction (1000-1200 words)

Present a detailed overview of your project, covering the following points:

- Problem statement and motivation
- Comparison with existing products/research studies
- Methodology, including experimental setup and evaluation
- Current status
- Results so far
- Plan for the rest of the semester

Related Work (1000-1200 words)

- Identify and review 10-15 products and research papers relevant to your project. Ensure a balanced mix of both.
- For each product and paper, highlight the most significant similarity and difference with your project.
- Create a comparison matrix that contrasts your idea/project with others across dimensions you find relevant. Be thoughtful about the dimensions you choose for comparison.

Methodology

- Include any initial user studies (if applicable) and describe your system design in detail. Include a flowchart or diagram that illustrates the system components and the flow of control and data between them.
- **Prompt Engineering Techniques:**
Describe the techniques you experimented with and provide results based on at least 10 samples per technique. Summarize your findings in a comparison matrix relevant to your use case.

- **RAG (Retrieval-Augmented Generation) Techniques:**

What RAG techniques did you try, or what are your plans for them? How do you intend to evaluate them?

Evaluation should follow the same pattern as with prompt engineering and include at least 10 samples per technique.

- **Agentic Techniques:**

Describe any agentic techniques you have used or plan to use. What is your evaluation strategy?

Again, ensure you evaluate with at least 10 samples per technique, similar to the prompt engineering evaluation.

Plan for the Rest of the Semester

- What system components still need to be implemented?
- What will the final system look like?
- Outline your approach to usability testing.
- **Now that you have learnt about LangGraph, you have a chance to re-think what better can you do in this project? Even if you want to modify your idea to some extent, that is allowed if that allows you to take advantage of LangGraph library.**

Important Reminders:

- You are free to use ChatGPT or other tools for writing, but remember that these tools are only as good as how you use them. Don't simply ask for the answers or don't use them blindly; use your own brains as well.
- Each group needs to submit one report. Contributions of each team member to the project and report writing should be explicitly mentioned in the report.
- Please stick to the mentioned word limits. Otherwise, marks will be deducted.