

Capstone Project Guidelines

Purpose

The capstone is your opportunity to bring together everything you've learned in the cohort, from LLMs and RAGs to agents, reasoning models, and multi-modal generation.

You can work on your own or with a small team. The scope is completely up to you. It does not have to be finished by the end of the course. The goal is to experiment, apply what you've learned, and enjoy the process of building something meaningful. The capstone is optional. You are welcome to participate even if you do not plan to present.

Selected projects may be highlighted in future cohorts or featured on social media. Your work can inspire others and help future learners see what is possible.

Getting Started

1. **Pick a Topic:** Pick a project that builds on one or more topics from the course.
2. **Form a Team:** You can work individually or in teams. To form teams, connect through the course portal or Discord.
3. **Add Your Project:** Once you are ready, add your team and project to the shared [Capstone Google Sheet](#). It will serve as the central place to track all projects.

Project Scope

- Some recommended focus areas are LLMs, RAGs, agents, and image or video generation.
- You decide how ambitious you want your project to be.
- For prototyping, you can start with open-weight models instead of training your own. Once you have a working version, you can always expand it later.
- Start small and gradually add complexity.
- You can share your work in any format: slides, a short video, a working demo, or even a partial prototype. You can use any libraries or open-weight models you prefer.
- The focus is on experimenting and demonstrating your ideas, not on infrastructure or scaling.

Support

- Use the “Capstone Project” channel to ask questions, brainstorm ideas, or share progress.

- Support each other and share what you learn. Many great ideas come from community discussions.

Links

- Capstone Projects Dashboard:
https://docs.google.com/spreadsheets/d/1bR_Yxg040Yk9l0ZDTvX95ygo8Mfgu0DsbgViA9BHOuU/edit?usp=sharing
- Capstone Project channel: <https://community.bytebyteai.com/c/capstone-project>

Examples of Possible Projects

Here are a few examples to spark ideas. You can explore any topic beyond these suggestions.

1. AI Tutor

An interactive learning assistant that uses RAG and reasoning to answer questions about any uploaded content or course materials.

2. Course Summarizer Agent

An agent that takes a collection of lecture videos (for example, from YouTube) and produces structured summaries and topic outlines.

3. Smart Travel Agent

A multi-step agent that helps plan a trip, find hotels and restaurants, and generate a suggested itinerary based on preferences.

4. Multi-Modal Creator

A creative assistant that can generate both text and visuals, such as blog posts paired with matching images.

5. Custom Research Agent

A web-connected reasoning agent that searches online, retrieves reliable sources, and synthesizes well-organized answers to questions in a custom domain.