Team SAILorS ⛵

- **Problem**: Write a 1 sentence description of the problem you're trying to solve

Finding and curating relevant, high-quality educational content on YouTube is challenging and time-consuming, leading to inefficient and unstructured learning experiences.

- **Why**:  Write a paragraph about why this is a problem worth solving.  To the company, to the world, to you!

YouTube is a treasure trove of knowledgeable content, and content creators are not bound to release their material in a structured way. Yet, thousands of people use it everyday as a primary and secondary means of learning new things. On a global scale, democratizing access to well-organized, high-quality educational content can bridge gaps in education, providing learners worldwide with opportunities to acquire new skills and knowledge.

- **Success**: Write 1-2 sentences about what success looks like.  What is the Key Performance Indicator?

Success can be measured by checking for relevancy of learning plans and further by tracking user engagement and consistency

- **Audience**: Specify the user/stakeholder/customer that this product is for.  What is their pain point or need that connects back to the problem?

The key audience is anyone who identifies as a student with an itch to learn, who is overwhelmed by the sheer volume of content on YouTube and the difficulty in finding high-quality, relevant videos.

- **Potential Solution**: Briefly describe data that you might use and the modeling techniques that you plan to leverage.  Incorporate RAG as well as fine-tuning of embeddings or an LLM chat model.

The potential solution would include an AI agent that can:

1. Take a user query, search YouTube using the API for videos
2. Filter videos for relevance to selected topic
3. Extract transcripts, chunk and embed them
4. Generate learning objectives for selected topic
5. Generate learning plan with references to specific videos

This solution will incorporate RAG as well as agentic planning.

- **Sharing**: What **community** do you plan on sharing your project in?

AI Makerspace and similar communities to start with, but can expand to any learning-focused community.