Midterm Meeting

Team 01

Logan

Contributions:

Research with LLM + hosting platform, workflow automation, vector databases.

Challenges/issues faced:

API usage, integration with many platforms at once. Project ideal backend

Work in progress:

Integrate with Google Cloud resources. Improve n8n workflows. Test whether document content correctly populates the knowledge graph.

Joshua

Contributions:

LLM + RAG research (tools, databases), workflow automation

Challenges/issues faced:

N8n learning and purpose on project, architecture of the project (general idea)

Work in progress:

Making workflow more efficient, Quadrant vectorization, workflow test

Brandon Zaragoza

Contributions:

Research with LLM’s (Deepseek and Llama Vision), RAG

Challenges/issues faced:

Environment issues, n8n automation

Work in progress:

n8n automation (functionality and efficiency), front-end application

Shobhit Sarkar

Contributions:

Implemented an approach to include contextualization & vectorization and its effects on response quality and accuracy

Challenges:

- Rate Limiting Strategies, optimal vector database selection, data scraping

Future Work:

- n8n workflow automation, set up data sources, environment setups, productionalized app (front-end included)

Joshua Yn

Contributions:

- Built an AI search tool that finds and summarizes academic documents using meaning, not just keywords. Retrieval-augmented generation (RAG).

Challenges:

- Worked on storing data efficiently, keeping searches fast, and automating workflows with n8n.

Future Work:

- Improving follow-up question handling, exploring Google Cloud for better storage, and making automation smoother.

Everyone

Assess whether there is enough work remaining for everyone.

There is plenty of work to be done (front-end, workflow automation).

Vector database data insertion.

Discuss any issues or concerns that need to be addressed. The sooner we know, the easier it will be to resolve them.

Code development. Client has us working with low/no code platforms such as n8n (code can still be embedded for more complex tasks but it will be minimal).