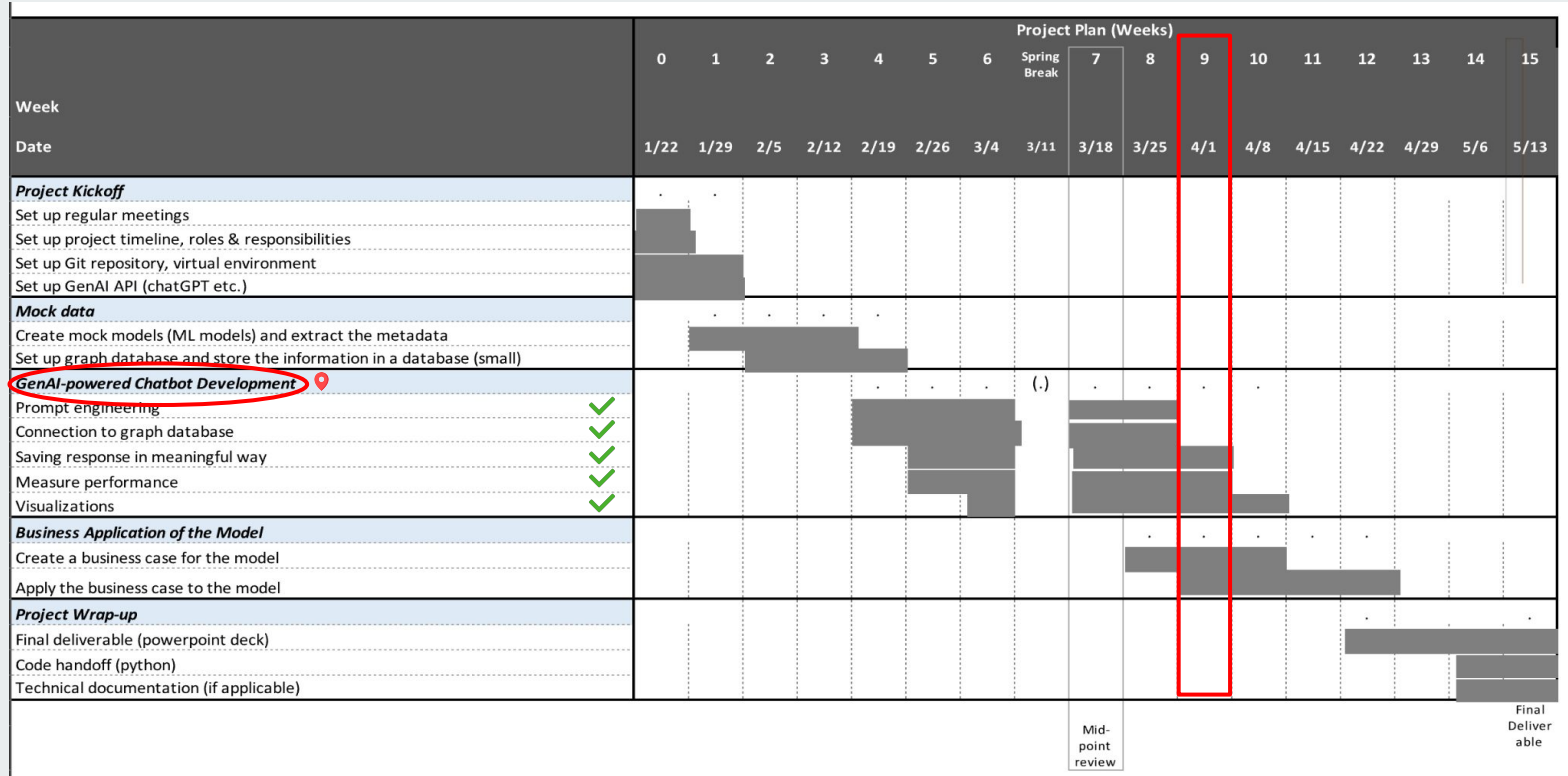




KPMG Capstone Weekly Update

2024.04.03

Schedule



Update



1. Successfully implemented the 3-layer LLM model in StreamLit

2. UI/UX

2.1 Instructions on prompts

2.2 Visualizations on the graph database

<https://capstone-kpmg-chatbot.streamlit.app/>

3. Automated the Testing Pipeline

Example Prompts



Give me the summary of the section Key Takeaways.

- Our model: correct answer
- Base model: AI hallucination

Does the model_925814632 and model_782951116 use the database sales?

- Our model: need to implement follow up
- Base model: AI hallucination

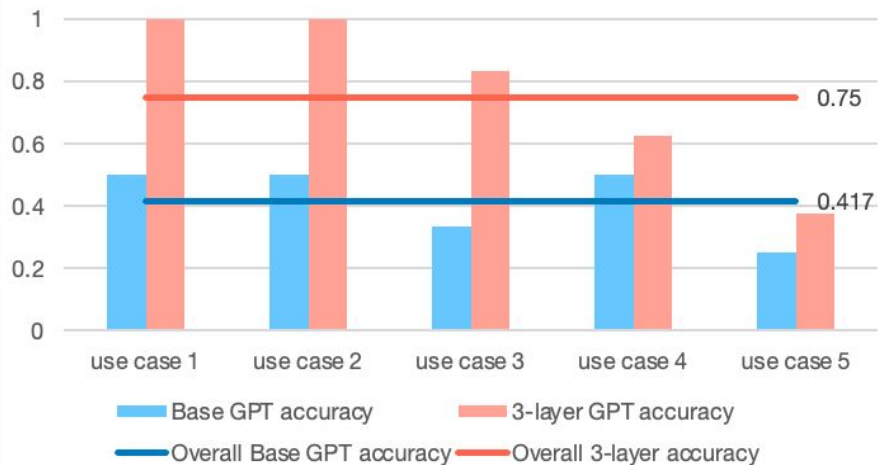
Which models are predicting risk levels?

- Our model: correct answer
- Base model: incorrect answer

Automatic Testing Pipeline

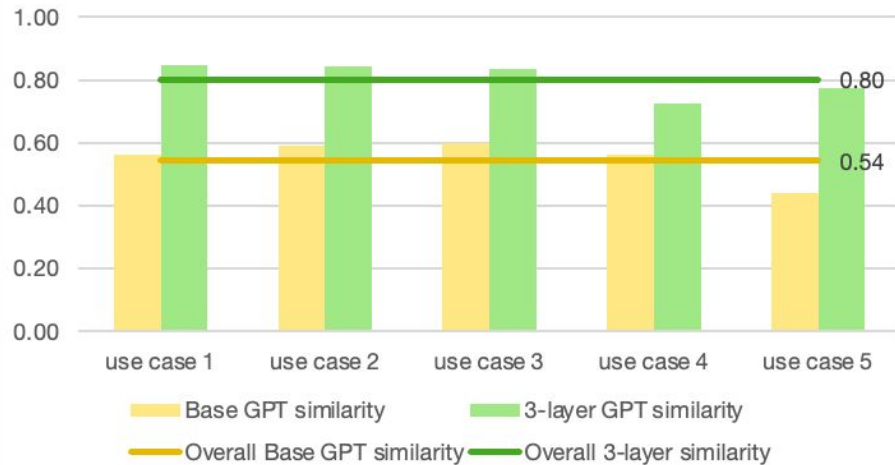
1. Accuracy

Accuracy Comparison



2. Hugging Face: bge-m3

Similarity Comparison



Future Plan



1. back-and-forth improvement, such as
 - a. chatbot questioning (I don't understand → I don't understand, do you mean xxx?
 - b. previous question references (Q: Can you provide information for the previous model?)
 - c. question synonym or misspelling
(To answer question like "who is the author/owner/maintainer of the model?")
2. Bad Performance on Use Case 4 & 5
 - Add more train cases?
3. Follow up questions
4. Visualization Tool on generated results