Coding Club – Machine Learning Recruitment
Task 2 Report

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Honestly, this task was a bit challenging for me and I was not able to finish it completely. However managed completing the following parts and subparts, as a result of many trials and errors. Though everything was there in the documentation, it was challenging to find what code is to be used for what. But in the end, learned a lot from this task, especially how and from where to get APIs and how to use them.

Level 1

Constructed a LangGraph node called chatbot powered by Google Gemini using the documentation.

A calculator tool which evaluates expressions and supports BODMAS rules was integrated with the chatbot. The graph was defined, a function was created to run the tools, conditional_edges were defined, and visualization was done using graph.

Level 2

Weather extractor tool was implemented using openweathermap api. The graph was defined, a function was created to run the tools and conditional_edges were defined.

I tried a lot to implement the fashion recommendation tool, but could'nt find a way out.

Finally, instead of doing nothing, I implemented the internet search tool, so that the chatbot can browse through the internet and answer the user's questions based on the prompt.

Level 3

And once again, I unknowingly messed up with the task order just like task 1. Routing logic and the chatbot's ability to identify which tool was to be used based on the prompt was already implemented in Level 2 while defining the tools.

Tried doing the conversational memory part, but couldn't complete it.