Al Store Assistant Project Report

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1. Project Overview and Objectives

This project aims to create an AI Store Assistant for a tech company using GPT-40-mini LLM model.

2. Methodology

2.1 Compiling codes

Combine the codes given in the End-to-End-AI-App-with-Evaluation.ipynb. The main objective was to understand what each function do and how they work together.

2.2 Key Functions and Their Purposes

- process_user_message: Process the user inquiries and moderate it for the appropriateness. Once evaluated, then generate a suitable response from the products.json along with helper functions from utils.py. If the evaluated response is appropriate, then return it to the user.
- log_messages: log the timestamp, user's inquiry, AI response, and the metadata for each inquiries.
- collect_messages_en: Create a chain prompt system so that the AI response can have a context from the previous conversations.

3. Challenges Faced and Solutions Implemented

- Challenge: Unable to implement the collect_messages_en
 - Solution: Create a simpler version and keep building off of it until it has all the functions similar to the provided function in the End-to-End-AI-App-with-Evaluation.ipynb.
- Challenge: Logging only the latest message
 - Solution: Build a separate function that reads the previous logs and then append
 to it, and then rewrite the new log.
- Challenge: Difficulty in applying gradio
 - Solution: Refer back to previous projects and understand how the demo works.
- Challenge: Deploying on Hugging Face
 - Unresolved: Not sure how to use a LLM model from Hugging Face.

4. Potential Improvements and Future Work

- Learn how to deploy on Hugging Face
- Start the project earlier to have enough time to do research on Hugging Face