Fynd AI Intern – Take Home Assignment Report

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Role: AI Engineering Intern

1. Overview

This assignment consists of two parts: rating prediction via prompt engineering and a web-based AI feedback system. The focus is on prompt design, evaluation, system behavior, and deployment.

2. Task 1 – Rating Prediction via Prompting

Dataset used: Yelp Reviews dataset (sampled 200 reviews). Three prompt versions were designed and evaluated.

Prompt V1 – Simple Zero-Shot: Baseline prompt with minimal constraints. Moderate accuracy and lower JSON validity.

Prompt V2 – Structured Prompt: Added strict JSON schema and rules. Improved consistency and JSON validity.

Prompt V3 – Reasoning-Guided Prompt: Internal reasoning enforced with strict output control. Best accuracy and reliability.

Results Summary:
V1 Accuracy ~68%, JSON Validity ~82%
V2 Accuracy ~72%, JSON Validity ~96%
V3 Accuracy ~75%, JSON Validity ~98%

3. Task 2 – Two-Dashboard AI Feedback System

A web-based system built using Streamlit with User and Admin dashboards sharing a common data source.

User Dashboard:
Users submit ratings and reviews. AI generates responses, summaries, and recommended actions which are stored in shared storage.

Admin Dashboard:
Displays all submissions with analytics such as average rating and feedback count.

4. Design Decisions

Streamlit was chosen for fast development and deployment. CSV storage was used for simplicity. LLMs were used for responses, summarization, and action recommendations.

5. Conclusion

This project demonstrates effective prompt engineering, evaluation of LLM outputs, and deployment of AI-powered systems with clear design reasoning.