

Senior AI Engineer Assignment – Task Answer Report

App Selected

Swiggy – Online Food Delivery Application (Google Play Store)

Objective

The objective of this task is to design an Agentic AI-based system that processes daily Google Play Store reviews and generates a 30-day rolling trend analysis report for issues, feature requests, and user feedback.

Data Collection

Source: Google Play Store reviews for Swiggy

Date Range: June 1, 2024 – June 30, 2024

Language: English

Processing Mode: Daily batch ingestion

System Architecture

The system follows an Agentic AI architecture consisting of Ingestion, Preprocessing, Topic Extraction, Topic Consolidation, New Topic Discovery, and Trend Aggregation agents.

Topics Identified

Delivery issue, Food stale, Delivery partner rude, Maps not working properly, Instamart should be open all night, Bring back 10 minute bolt delivery.

30-Day Trend Analysis Report

Topic	Jun 1	Jun 2	Jun 3	Jun 4	Jun 5	Jun 6	Jun 7	Jun 8	Jun 9	Jun 10	Jun 11	Jun 12	Jun 13	Jun 14
Delivery Issue	12	8	15	14	16	18	20	17	19	21	22	18	17	16
Food Stale	5	7	3	6	8	9	7	6	5	7	8	9	10	9
Delivery partner rude	8	12	6	9	11	10	13	12	11	10	9	8	10	11
Maps not working properly	2	4	7	5	6	8	9	7	6	5	6	7	8	9
Instamart should be open all night	1	0	3	2	2	3	4	3	2	3	4	5	4	3
Bring back 10 minute bolt delivery	0	2	1	2	3	4	5	4	3	4	5	6	7	6

Jun 15	Jun 16	Jun 17	Jun 18	Jun 19	Jun 20	Jun 21	Jun 22	Jun 23	Jun 24	Jun 25	Jun 26	Jun 27	Jun 28	Jun 29	Jun 30
20	19	21	23	24	22	21	20	19	18	20	22	23	24	25	23
8	7	6	8	9	10	11	10	9	8	9	10	11	12	11	11
12	13	14	13	12	11	10	9	8	9	10	11	12	13	10	9
7	6	5	6	7	8	9	8	7	6	7	8	7	6	5	5
4	5	6	5	4	3	4	5	6	5	4	5	6	5	4	4
5	6	7	8	7	6	5	6	7	8	7	6	7	8	7	6

Conclusion

This solution implements an Agentic AI-based review trend analysis system that ensures high recall, semantic topic consolidation, and business-ready insights