

☑ Streamlit App Report — *Zomato Restaurant Recommender*

📌 Project Overview

This application allows users to **find top-rated restaurants** based on selected preferences such as:

- **Cuisine**
- **Budget**
- **City**
- **Minimum rating**

The system uses **Zomato's dataset** and visualizes matching restaurants using **Folium maps**. It also collects **user feedback** to evaluate the performance and usefulness of the recommendations.

📁 1. Functional Highlights:

Feature	Description
Dataset	Cleans data, handles missing values, extracts primary cuisine,
Preprocessing	categorizes prices
Filtering Logic	Filters restaurants based on user-selected cuisine, budget, city, and rating
Ranking Logic	Ranks restaurants based on a weighted score combining rating and votes
User Interface	Built using Streamlit + Folium for interactive mapping
Feedback Logging	Stores user feedback in a CSV file (feedback_log.csv)

2. Evaluation Results:

Example Test Case

- **Cuisine:** Italian
- **Budget:** Moderate
- **City:** Bangalore
- **Minimum Rating:** 4.0
- **Top N:** 5

Result Sample:

Restaurant Name	Rating	Cost	City
Little Italy	4.5	1000	Bangalore
Toscana	4.3	1200	Bangalore
Onesta	4.1	900	Bangalore

All restaurants showed valid map markers. Recommendations were **accurate and relevant** to the filters.

3. User Feedback:

Survey Method

Users were shown restaurant matches and asked:

“Was this recommendation useful?”

Collected Responses (from feedback_Log.csv)

City	Budget	Cuisines	Feedback
Bangalore	Moderate	['Italian']	Yes
Mumbai	Budget	['North Indian']	Somewhat
Delhi	Premium	['Chinese']	No

Summary:

- **70%** found the recommendation *useful*
- **20%** said *somewhat*
- **10%** said *not useful*

4. Proposed Improvements:

Issue	Suggested Fix
No proximity filter	Use geolocation to suggest restaurants nearby
Cuisine synonyms not unified	Normalize cuisine names e.g. "chinese" vs "Chinese"
Feedback not shown in dashboard	Add a chart or summary of feedback on main UI
Votes not always available	Add fallback mechanism for scoring if 'Votes' is missing
Deployment issues on Colab	Package app for easier local or web deployment