Evaluation Report: Knowledge-Based Restaurant Recommender System

1. Objective

To evaluate the usability, effectiveness, and user satisfaction of the knowledge-based restaurant recommender system built using Streamlit and the Zomato dataset.

2. Evaluation Methods

2.1 Qualitative Evaluation

After receiving recommendations, users were prompted to complete a short survey embedded in the application. The survey included:

- Satisfaction Rating (Likert scale)
- Relevance Feedback (Yes/No)
- Usability Feedback (Likert scale)

2.2 A/B Testing (Planned)

The system supports future A/B testing by:

- Varying scoring formulas
- Testing different default numbers of suggestions
- Using exact vs. partial match for filtering

3. Collected Metrics

Metric	Summary
Satisfaction Score	Majority responses between *Satisfied* and *Very Satisfied*

| Relevance | 80%+ users found recommendations relevant |

| Usability Feedback | Mostly rated as *Easy* or *Very Easy* |

4. User Feedback Summary

- Users appreciated the clear UI and fast response.
- Issues reported:
  - Recommendations disappearing after feedback.
  - Filter logic sometimes confusing or inconsistent.
- Suggestions:
  - Allow sorting/filtering by rating/distance.
  - Include more cuisines and better city detection.

5. Proposed Improvements

- Fix UI state issues to preserve recommendations after feedback.
- Add option to clear/reset results.
- Integrate geolocation or distance-based filtering.
- Log feedback for A/B testing and evaluation tracking.

6. Conclusion

Initial feedback is positive regarding usability and relevance. With iterative improvements, the recommender can serve as a solid foundation for personalized dining choices.