

FindYourRestaurant

Find Flavor, Wherever You Are

Advanced Information Retrieval, Group 14

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[FindYourRestaurant - GIT repository](#)



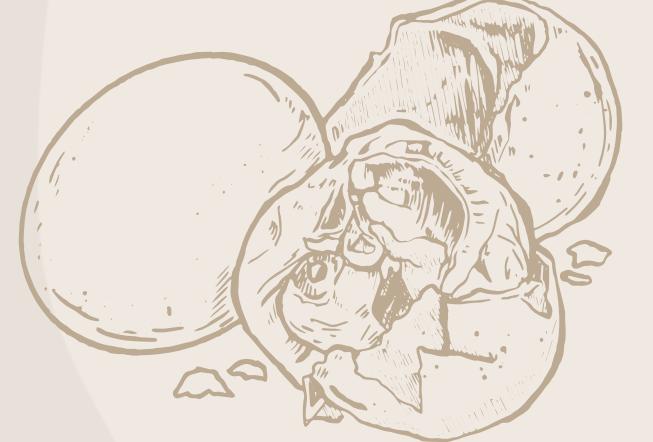
Introduction & Motivation

Goal:

- Improve personalized restaurant recommendations
- Integrate:
 - **User preferences** (e.g. favorite cuisines, dietary restrictions, ...)
 - **Contextual factors** (e.g. location, ...)
 - **Sentiment analysis** of customer reviews

Prediction:

Deliver more relevant and meaningful dining suggestions tailored to individual users.





Data & Methods

Data Storage and Preprocessing

Storage of the [Yelp Dataset](#) into SQL database

Pre-process restaurant customer comments and ratings

Text Tokenization

Model Output

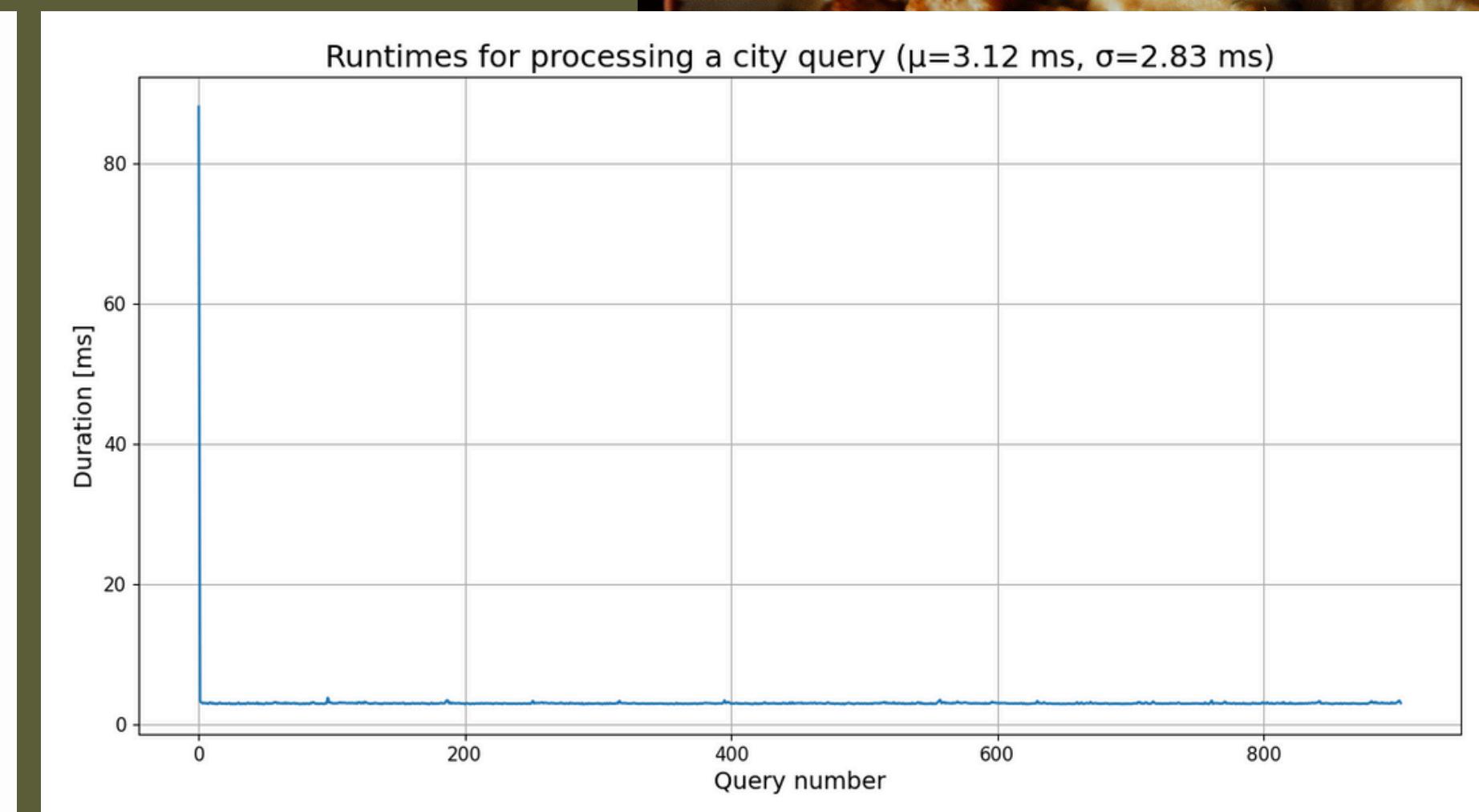
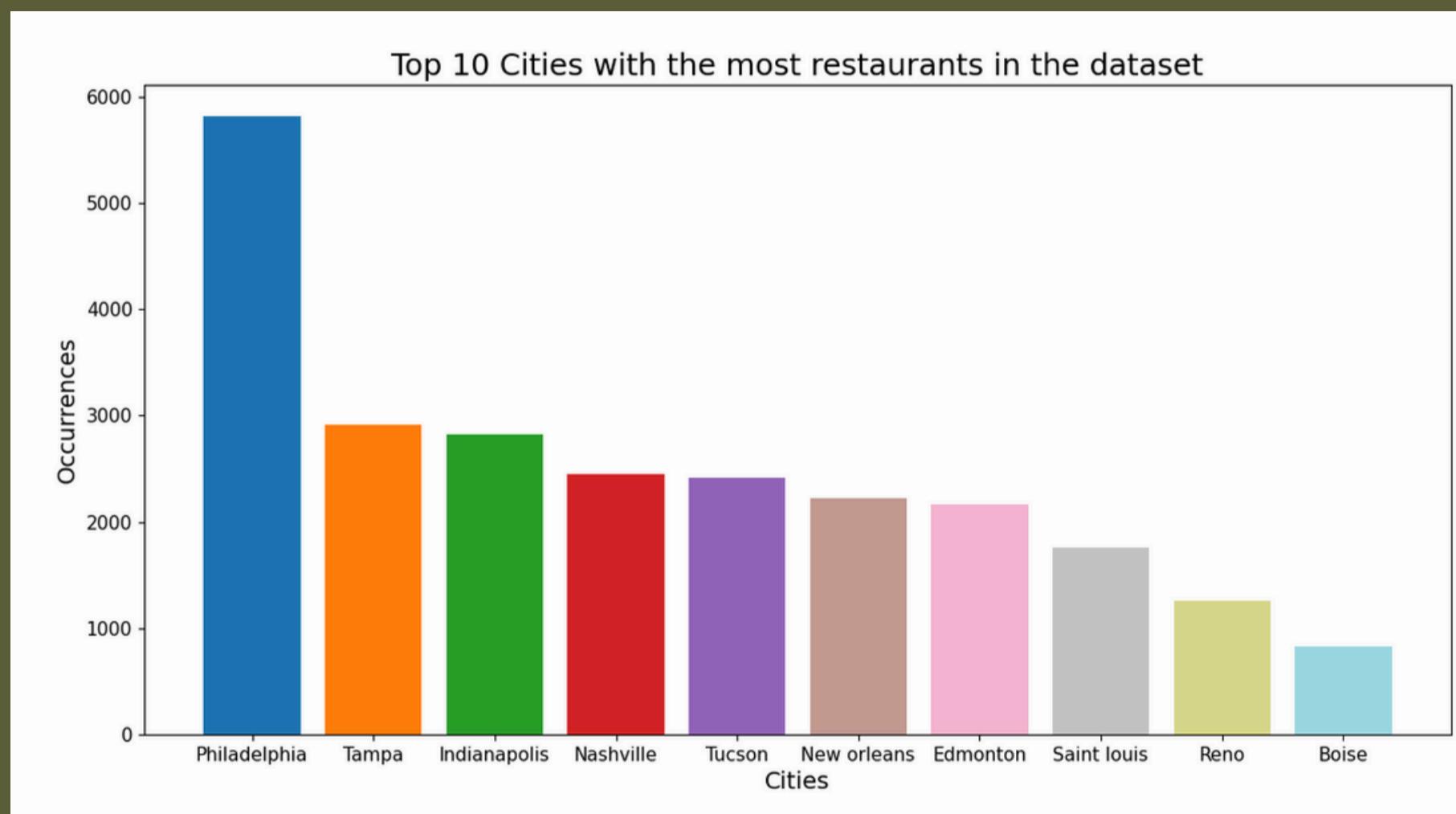
For each restaurant, output a relevance score indicating the meaningfulness of the text concerning the user query.

Model Training Strategy

k-fold cross-validation strategy

Results

- **Keyword Matching:** Strong ability to identify and rank relevant keywords, aligning restaurants with user intent.
- **Geographic Coverage:** Encompassed 920 cities.
- **Performance Metrics:** Focus on quantitative metrics (e.g., sentiment accuracy) and promising query-response relevance.



Conclusion

(incl. limitations/biases)

Results

- **Keyword Matching:** Accurate, relevant recommendations.
- **Geographic Coverage:** 920 cities.
- **Performance:** Strong sentiment analysis and query-response relevance

Limitations

- **Real-Time Feedback:** Lacks dynamic adaptation.
- **Contextual Features:** Missing factors (current location, time, group size).
- **UI:** Needs interactivity, voice support.

