

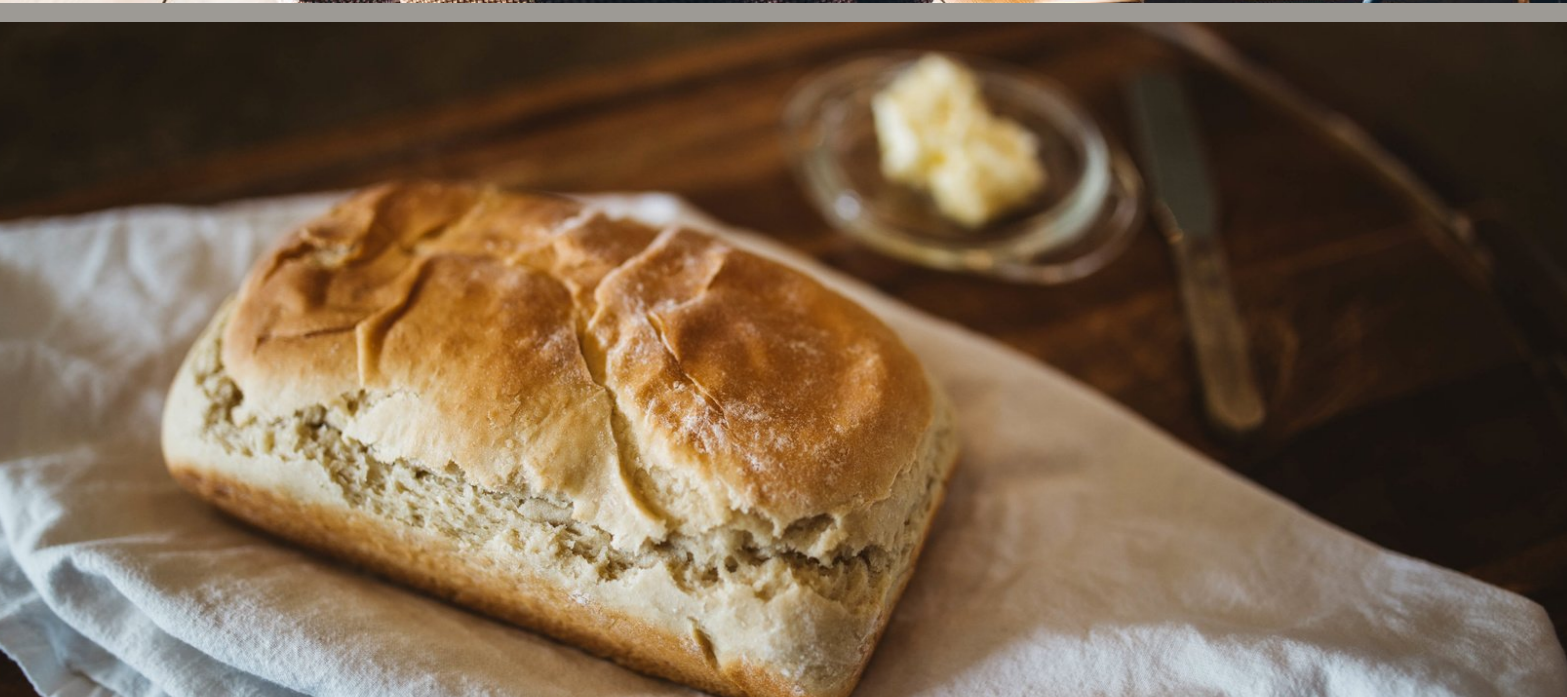


# YELP CAFE REVIEWS USING NLP

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# CONTENT OUTLINE

- Introduction
- Data
- Data Preprocessing
- Expolarity Data Analysis
- Topic Modeling
- Sentiment Analysis
- Recommendation system
- Conclusion





## INTRODUCTION

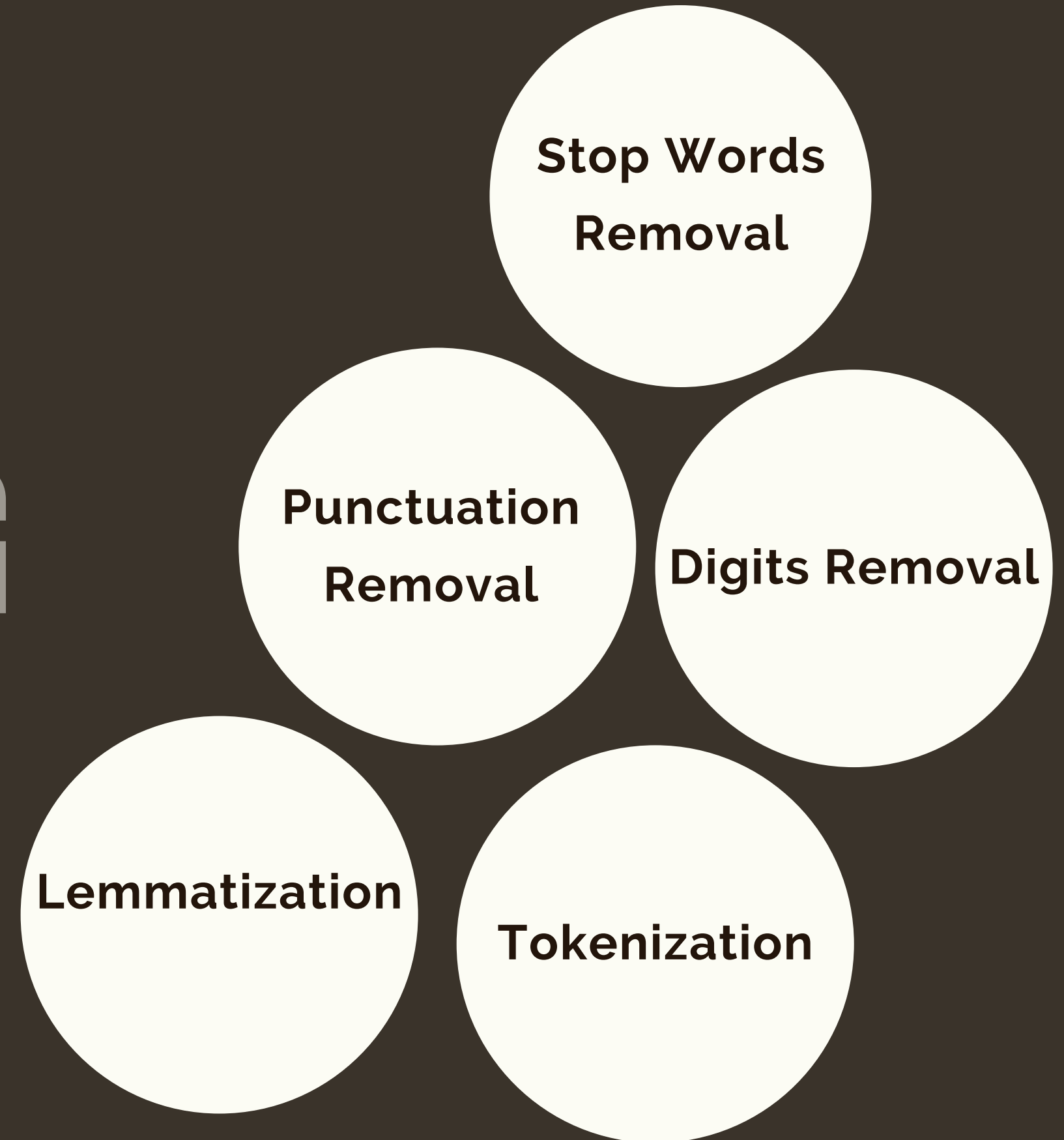
- Build a system that can detect the sentiment of cafe reviews
- Offer similar cafes to the favorite one through the development of a recommender system.

# DATA DESCRIPTION

- Provided by Kaggle.
- Consist of nearly 7,000 observations and 20 features.
- Important features were selected.

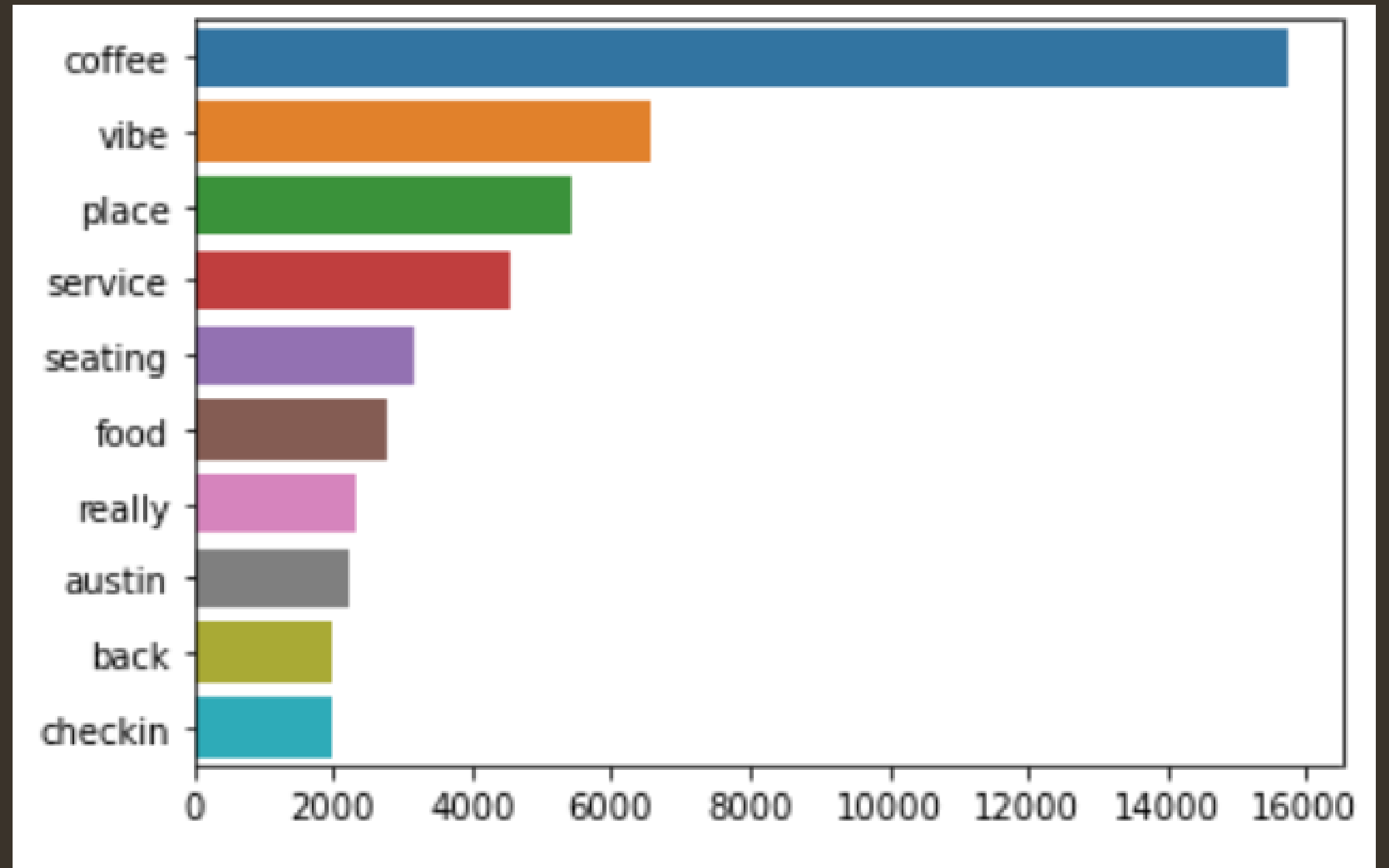


# DATA PREPROCESSING



# PLOTS

- Shows Top frequent words in the reviews



# WORD CLOUD PLOT



# TOPIC MODELING

1

## Vectorization

The use of TF-IDF with LSA

2

## LSA

3 Topics were selected

3

## Topics

Place, Service and Food

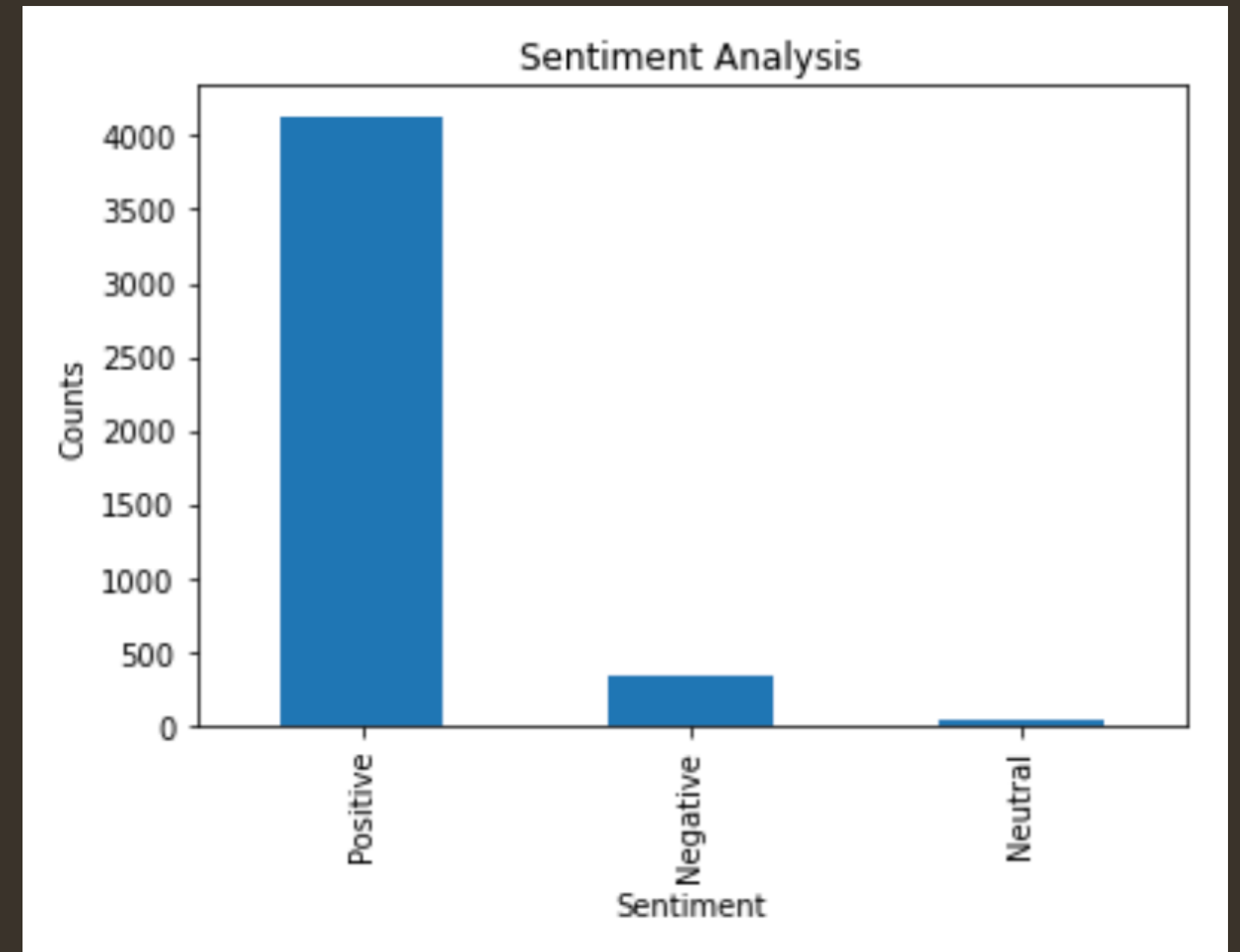


# TOPIC MODELING

Topic Name	Words
Topic 0: Place	Coffee, vibe, place, service, seating, food
Topic 1: Service	Coffee, shop, moon, best, iced, cup service
Topic 2: Food	Moon, cream, milk, tea, sweet, ice, food

# SENTIENT ANALYSIS

- Subjectivity and Polarity were found
- Based on Polarity analysis were conducted



# RECOMMENDATION SYSTEMS

- COSINE SIMILARITY

Café Name	Recommendation
Patika	Houndstooth Coffee, Cafe Crème
Houndstooth	Flightpath Coffeehouse, Café Medici
Venezia Italian Gelato	Mary's Café, Dolce Neve

**THANK YOU!**