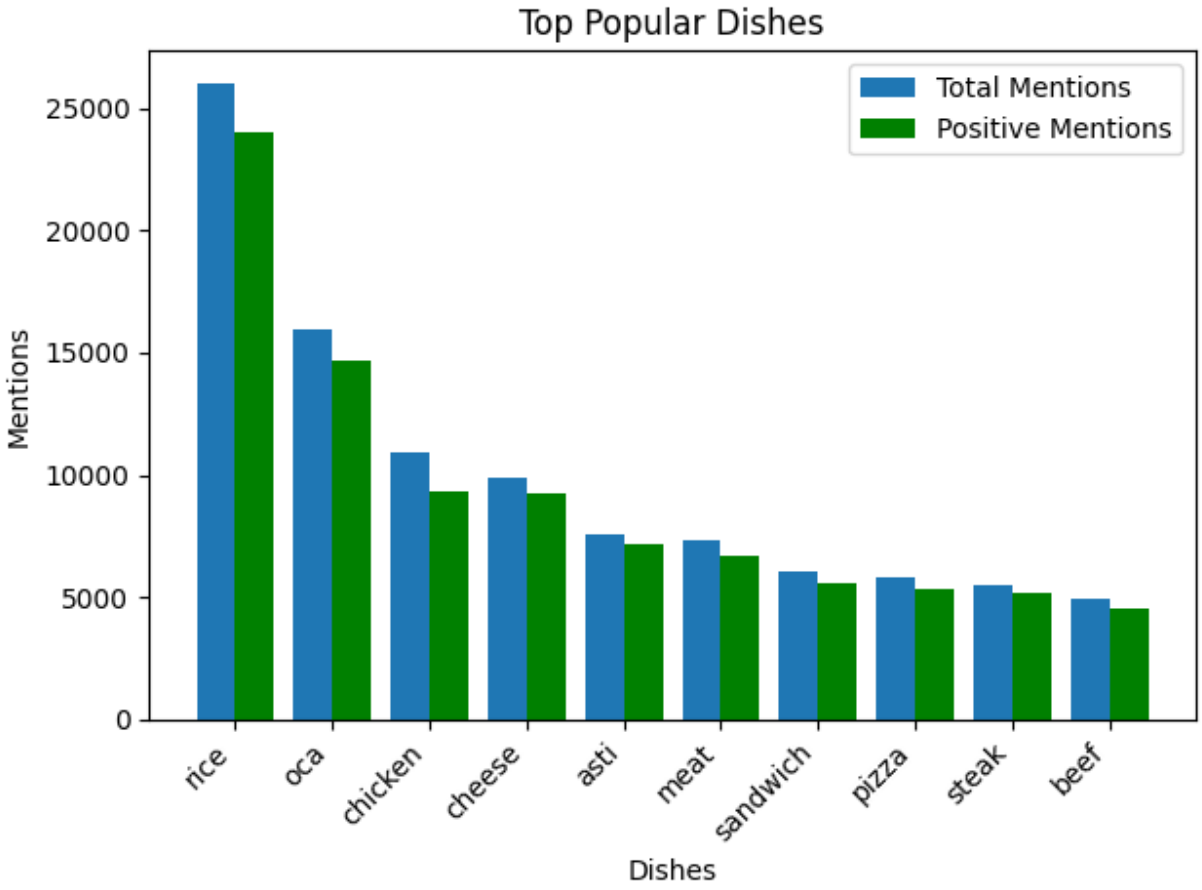
For Task 4, the goal was to identify the most popular dishes in Yelp reviews for a selected cuisine. The process involved:

The first step was to identify and count how many times each dish appeared in the reviews. Sentiment analysis was performed using TextBlob to classify each review as positive, neutral, or negative based on the sentiment polarity score. A review was considered positive if the polarity was greater than 0, negative if less than 0, and neutral otherwise. Dishes were ranked based on the total number of mentions in reviews and the number of positive mentions for each dish.

The bar chart allowed for easy comparison of dish popularity and sentiment, where dishes with high positive sentiment were given more prominence.



In Task 5, the goal was to recommend restaurants based on reviews mentioning a specific dish. The recommendation algorithm was designed as follows:

> For each restaurant, I identified reviews that mentioned the marghrtita pizza. This was done by checking the presence of the dish name in the review text. Each review mentioning the the marghrtita pizza was analyzed using TextBlob to compute a sentiment

score. The sentiment scores of reviews mentioning the marghrtita pizza were aggregated for each restaurant to form a composite score, which was used to rank restaurants. Restaurants were ranked based on the aggregated sentiment scores, with higher scores indicating better recommendations for the dish. For each review mentioning the target dish, the sentiment score was added to the restaurant's total score. The business ID from each review was used to map the review to the restaurant. Restaurants with higher sentiment scores for the target dish were ranked higher in the recommendation list.

This chart helped illustrate which restaurants had the most positive sentiment for the margherita pizza, allowing users to make informed decisions based on the reviews for a specific dish.