

**Title:**

Analyzing the Rhode Island Restaurant Scene: A Data-Driven Approach

**Abstract:**

This project aims to develop a restaurant recommendation system that utilizes machine learning techniques based on user location and preferences. The system will be trained on restaurant data obtained through web scraping and APIs from popular review websites such as Yelp and TripAdvisor. By analyzing the users' past restaurant visits and preferences, the system will generate personalized restaurant recommendations in the Providence, RI area. The project will employ statistical techniques to investigate the relationships between various attributes of the restaurants, including cuisine type, price range, location, and their effect on user satisfaction. Additionally, we will investigate the impact of various restaurant characteristics on user behavior, such as the willingness to travel to a further location or the preference for certain restaurant chains. The project aims to provide users with a more personalized and enjoyable dining experience, as well as offer valuable insights for restaurants to improve their business strategies.