

LetsEat FINAL PRESENTATION

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"I don't care, I just don't want Italian food."

"It's so difficult for everyone to agree on a restaurant."

"We can't figure out where to eat, it is too hard to decide."

"There's too many options on Yelp and Google."

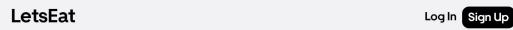


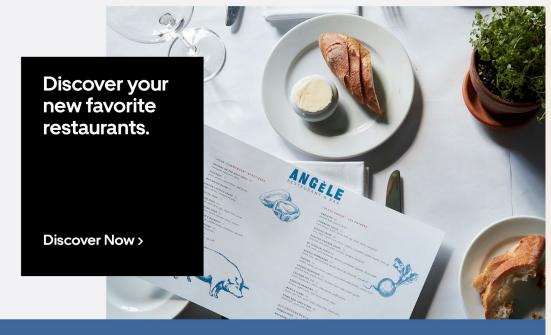


LetsEat is a restaurant recommendation application that utilizes machine learning to quickly generate a single personalized recommendation based your input





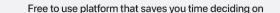




"LetsEat provides personalized restaurant recommendations using a unique machine learning algorithm"

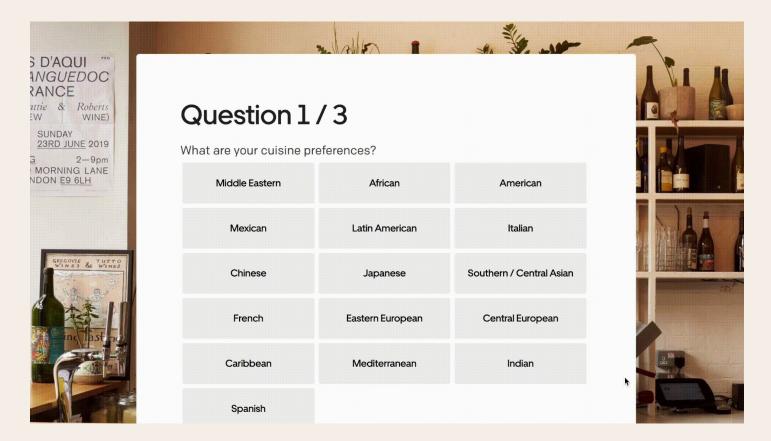
We match your preferences and restrictions to restaurants for you





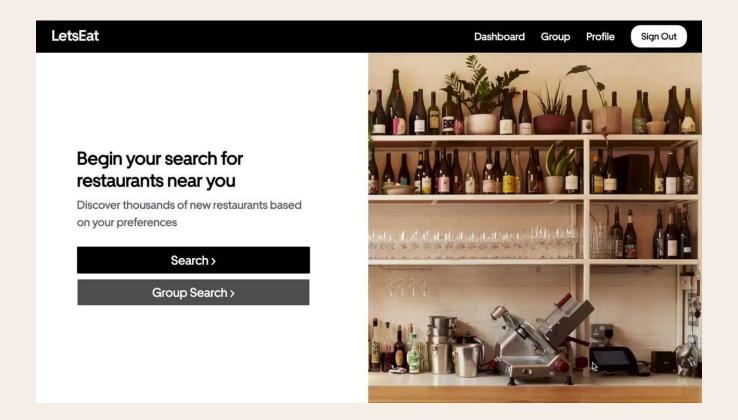


Create a New Profile



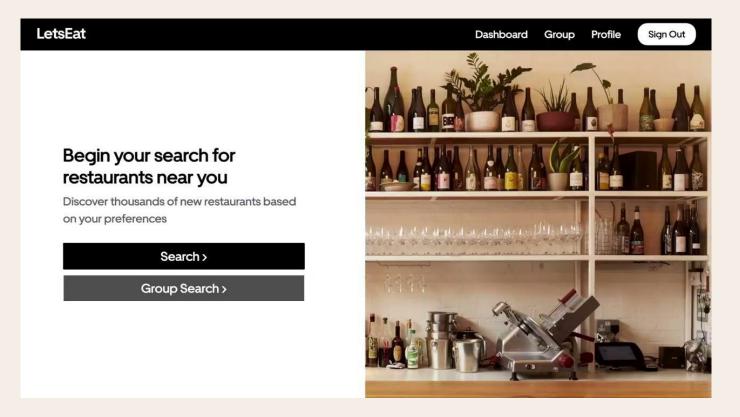


Search





Group Search





How Do We Generate Recommendations?

Machine Learning!

But how does our machine learning algorithm learn what recommendations to give?





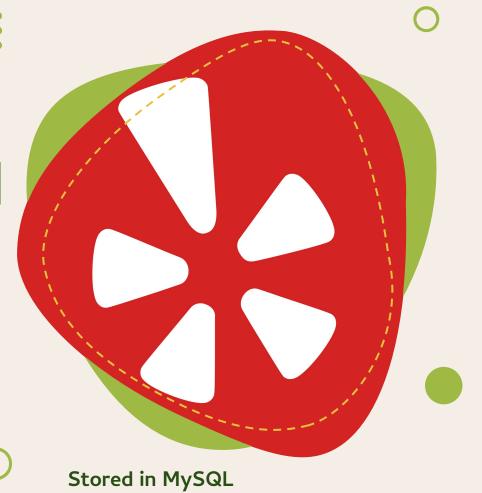


Where / How Are We Getting the Data?

BACKEND

Yelp Fusion API

- Restaurant Name
- Restaurant Location
- Restaurant Price Range
- Restaurant Cuisine Type
- Restaurant Hours





Web Scraping Algorithm



Selenium Webdriver Se

- Scrapes restaurant webpages and reviews
- Sentiment Analysis on Reviews
- Offload to AWS Lambda













How is the Data Used to Make Recommendations?

BACKEND

The Answer: Machine Learning



User and Restaurant Data

Takes user answers and restaurant features



Matches the users and restaurants

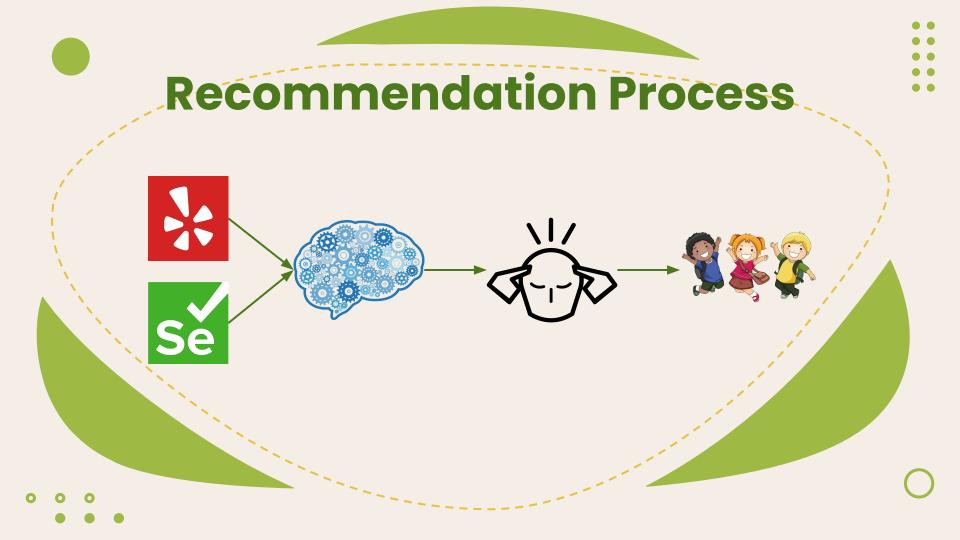


Delivers recommendation based on model training





Algorithm Learns Based on User Activity





Recommendation Accuracy







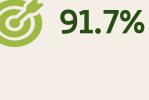
Precision



99.1%

Recall













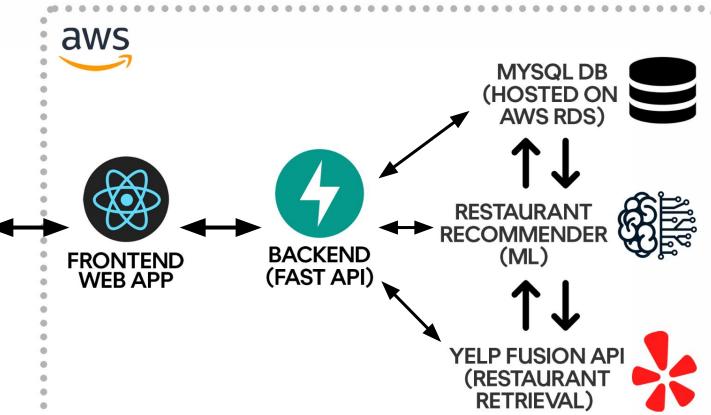
PUTTING IT TOGETHER

FRONTEND & BACKEND

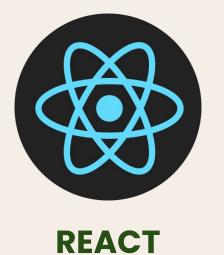


System Architecture

USERS



FRONTEND LIBRARIES









BACKEND LIBRARIES









Use LetsEat!

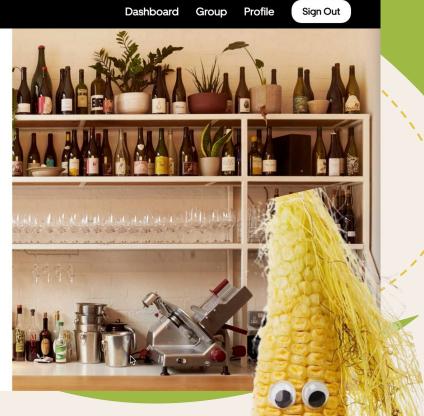
LetsEat Dashboard Group **Profile**

Begin your search for restaurants near you

Discover thousands of new restaurants based on your preferences

Search >

Group Search >





Do you have any questions?

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https://menglander2019.github.io/Le tsEat-Dev/website/index.html

