

LetsEat FINAL PRESENTATION

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THE ISSUE

"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."

THE SOLUTION

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

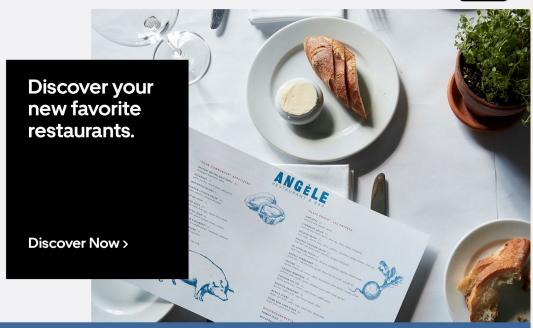






LetsEat

Log In Sign Up



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

We match your preferences and restrictions to restaurants for you

Free to use platform that saves you time deciding on



Create a New Profile

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S D'AQUI "" ANGUEDOC ANCE attie & Roberts W WINE) SUNDAY 23RD JUNE 2019 G 2-9pm MORNING LANE NDON E9 6LH



Question 1/3

What are your cuisine preferences?

Middle Eastern	African	American
Mexican	Latin American	Italian
Chinese	Japanese	Southern / Central Asian
French	Eastern European	Central European
Caribbean	Mediterranean	Indian
Spanish		







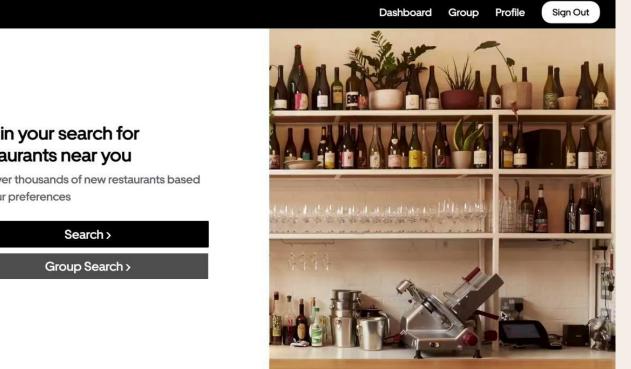


Search

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LetsEat Dashboard Group Profile Sign Out Begin your search for restaurants near you Discover thousands of new restaurants based on your preferences and a set of all of all of all of all of the last of the last of the last Search > Group Search >

Group Search



Begin your search for restaurants near you

LetsEat

Discover thousands of new restaurants based on your preferences

How Do We Generate Recommendations?

Machine Learning!

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

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Where / How Are We Getting the Data?

BACKEND

Yelp Fusion API

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



Stored in MySQL

Web Scraping Algorithm

Selenium Webdriver Se

- Scrapes restaurant webpages and reviews
- Sentiment Analysis on Reviews

Best nights on Friday, Saturday, Sunday

Offload to AWS Lambda

X Accepts Apple Pay

Good for Groups

Good for Dinner

Waiter Service

No Outdoor Seating

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8/7/2022

riends invited me out for italian dinner, very classic old spot. The entire restaurant was filled ervice was still quick with that. Entrees are completely shareable and it's a good time to be w riends or a date night







How is the Data Used to Make Recommendations?

BACKEND

The Answer: Machine Learning

User and Restaurant Data

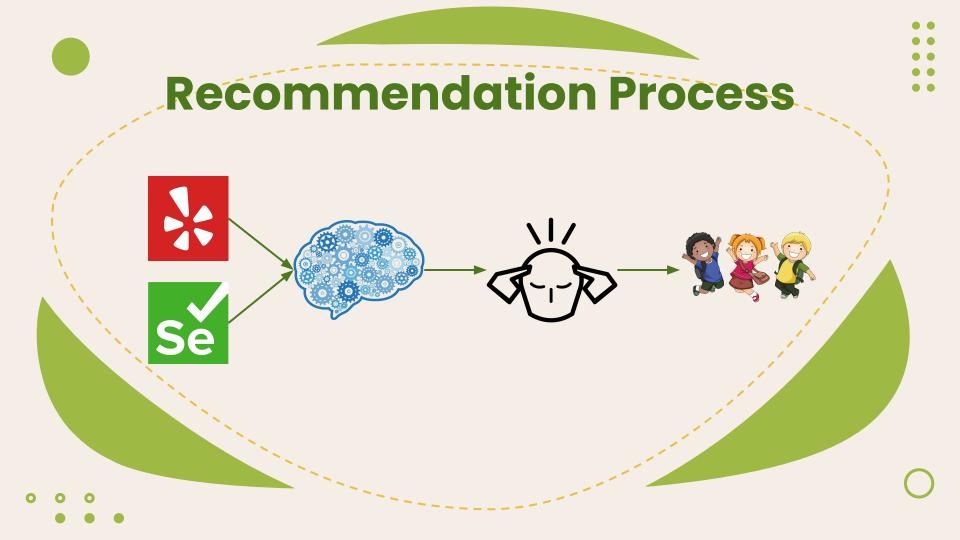
Takes user answers and restaurant features
Matches the users and restaurants

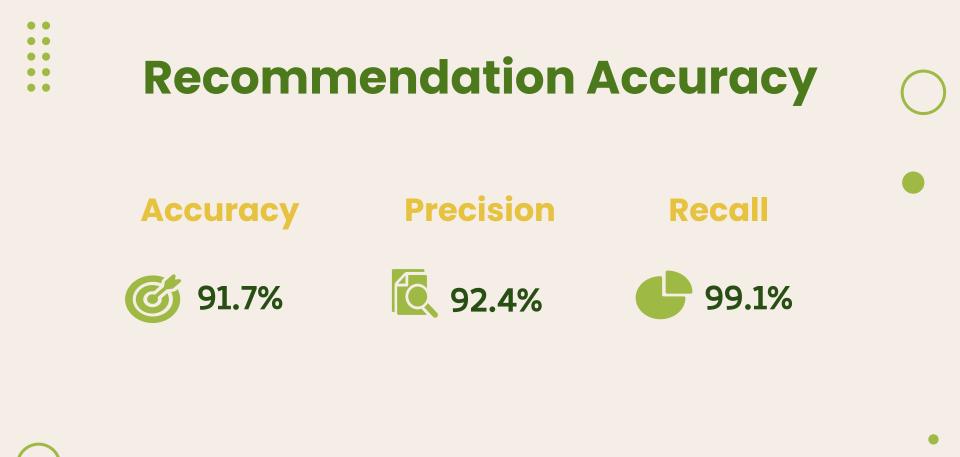
Delivers recommendation based on model training

Algorithm Learns Based on User Activity

Collaborative Filtering





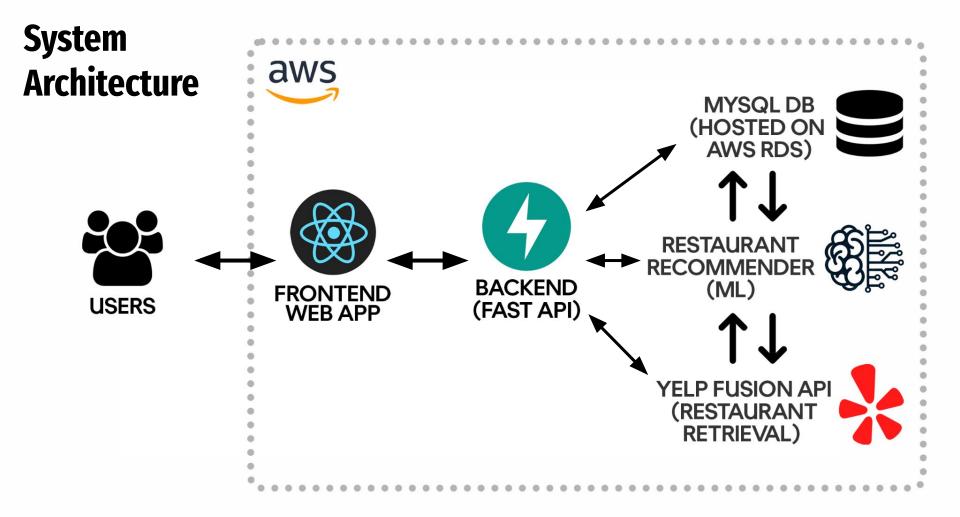




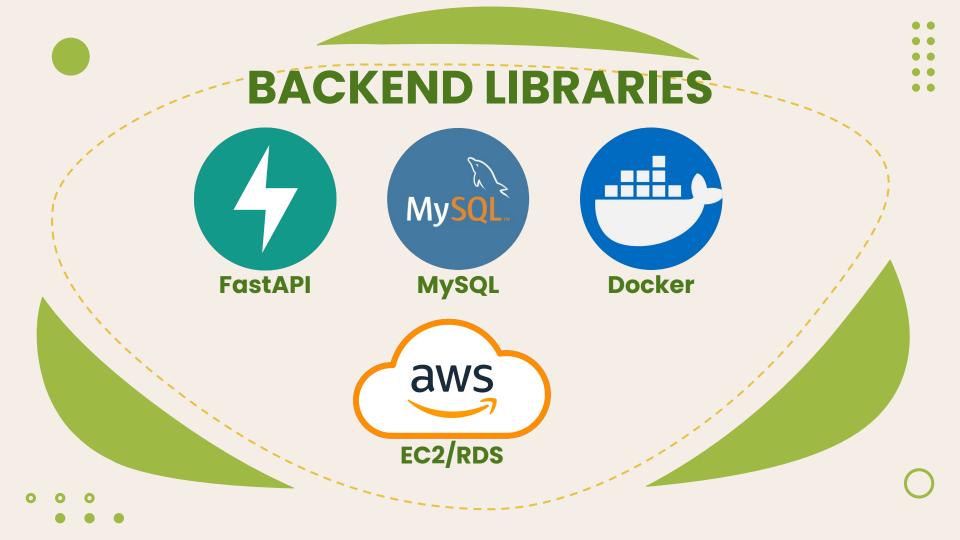


PUTTING IT TOGETHER

FRONTEND & BACKEND







Use LetsEat!

LetsEat



Begin your search for restaurants near you

Discover thousands of new restaurants based on your preferences

Search >

Group Search >



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• THANKS!

Do you have any questions?

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

