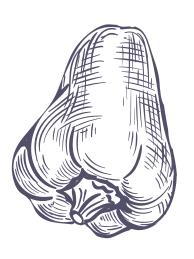




Byte BITES

Generating **nutritious**, **personalized** recipes that best **utilize user ingredients** through a user-friendly web interface



Problem Statement

Target Audience



44%

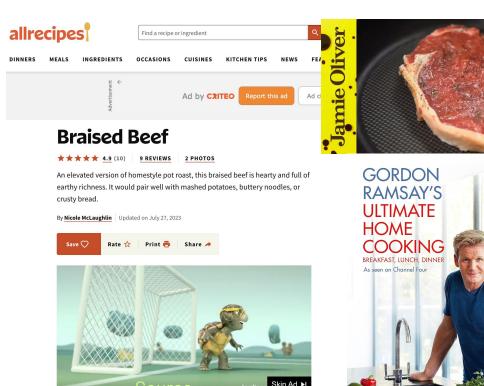
of Americans meal prep regularly

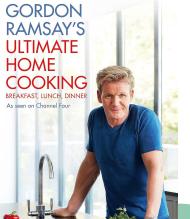
26.9%

22.2%

of Americans meal prep to save time of Americans meal prep to eat he<mark>althier</mark>

Current cooking resources overlook user needs





inconvenient, time consuming Little to no nutritional information





an Average American spends

\$1300

on food that end up being unused / discarded



Problems that Byte**BEIGS** addresses



Convenience

Our user can conveniently generate recipes with our user-friendly web app.



Nutrition

Recipes generated by ByteBites provide detailed nutritional facts to users.



Waste

ByteBites generates recipes that optimally utilize ingredients that the user has bought from their grocery store runs.

Target Audience





- Looking for efficient, nutritious ways to prep meals
- Looking to optimally utilize ingredients to save costs
- High acceptance for Al-based applications



Unique Value Proposition

Our Uniqueness

01

Automated Ingredient Recognition

Use OCR model to identify ingredients from receipt

03

Health and Wellness integration

Monitor nutrients intake and provide insights on user's diet

02



Personalized Meal Planning

Dietary restrictions, time constraints & meal types

04

User-Driven Recipe Refinement

Incorporate user ratings with RLHF to improve recipe recommendation

Competitive Position



High) Yumnly: evel of Personalization (Low dishgen SuperCook



Level of Automation (Low → High)



Bytebites <u>Demo</u>



Scalability and Efficiency

Model & Optimization



Data

We use recipe data from food.com containing **180K recipes** and **700K reviews**, reflecting 18 years of user interactions and uploads.



Model

We finetune **facebook-opt-125m** model on the recipe dataset and we plan to use the **Llama3-8B** model in our final application.



Infrastructure Considerations







Future Development & Growth Potential



Future Development Roadmap

Integration

Seamless interaction between the app and smart kitchen appliances

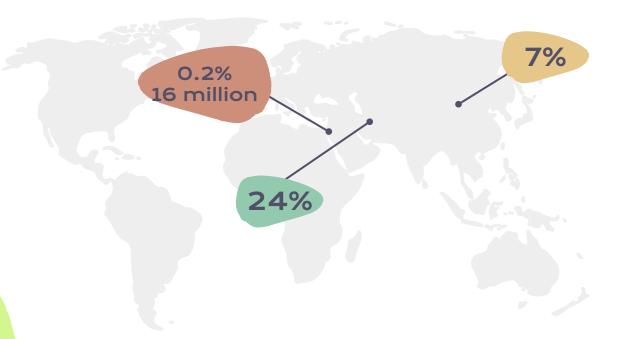
Community

Foster a community of cooking enthusiasts and encourage social interaction.



Expanding Globally Through Localization

Objective: To attract international users by tailoring the app's content to various languages and regional culinary preferences.



Islam

Halal food: no alcohol, cblood, pork

Buddhism

Vegetarianism

Judaism

Kosher food: no port and shellfish

Retail Partnership

Objective: Integrate with grocery retailers to enable direct ordering from the app, making shopping seamless and convenient.





THANKS

DO YOU HAVE ANY QUESTIONS?

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