

**REC
NOVELTY
FOOD
COMMENDATION**

BY GIFTY SINGH

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WHY FOOD
DATA PROCESSING
FEATURES
MODEL TRAINING
A/B TESTING
NEXT STEPS

CAPSTONE TIMELINE

2 months to pick a dataset, clean and model was
not a easy challenge!
credit goes to each participant.

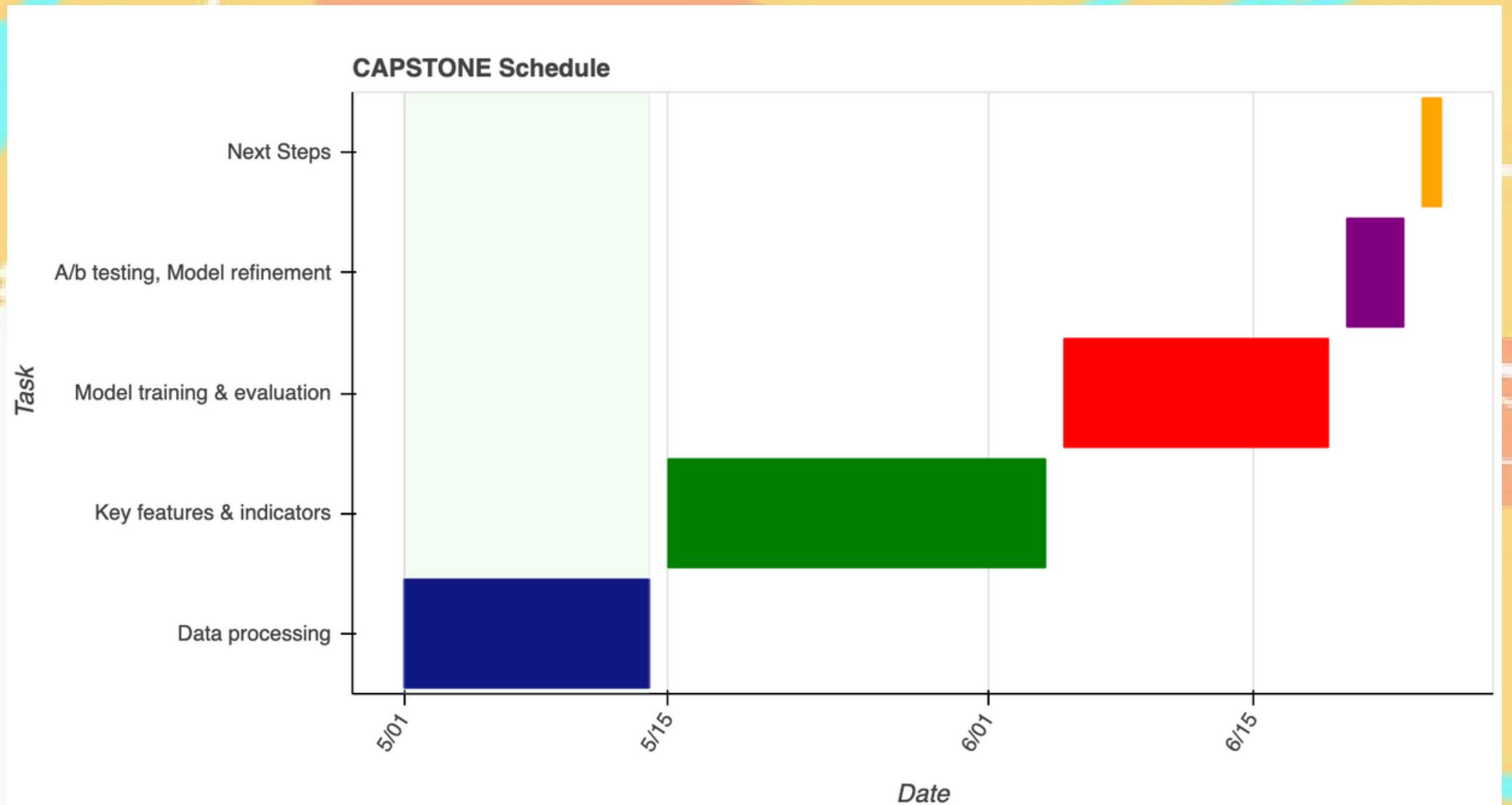
WHY FOOD

Market - Food industry to grow to 20 trillion by 2027

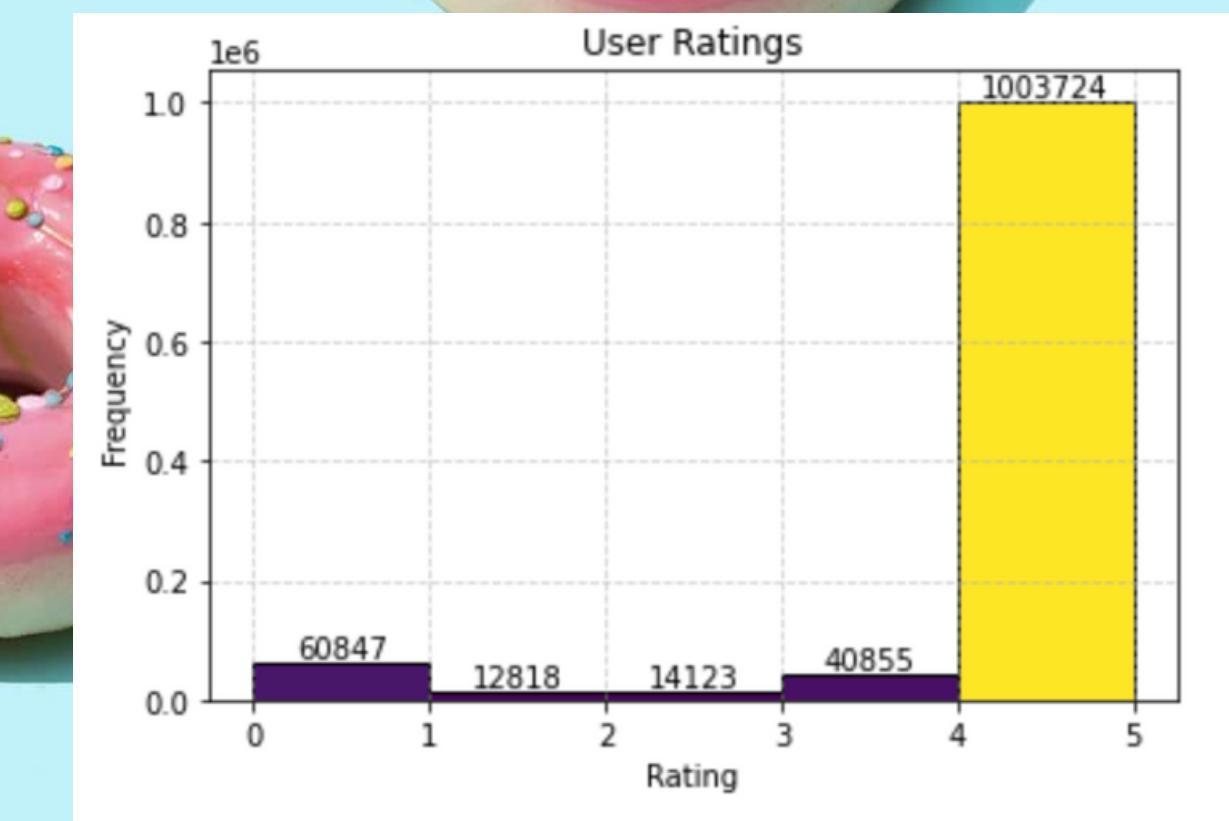
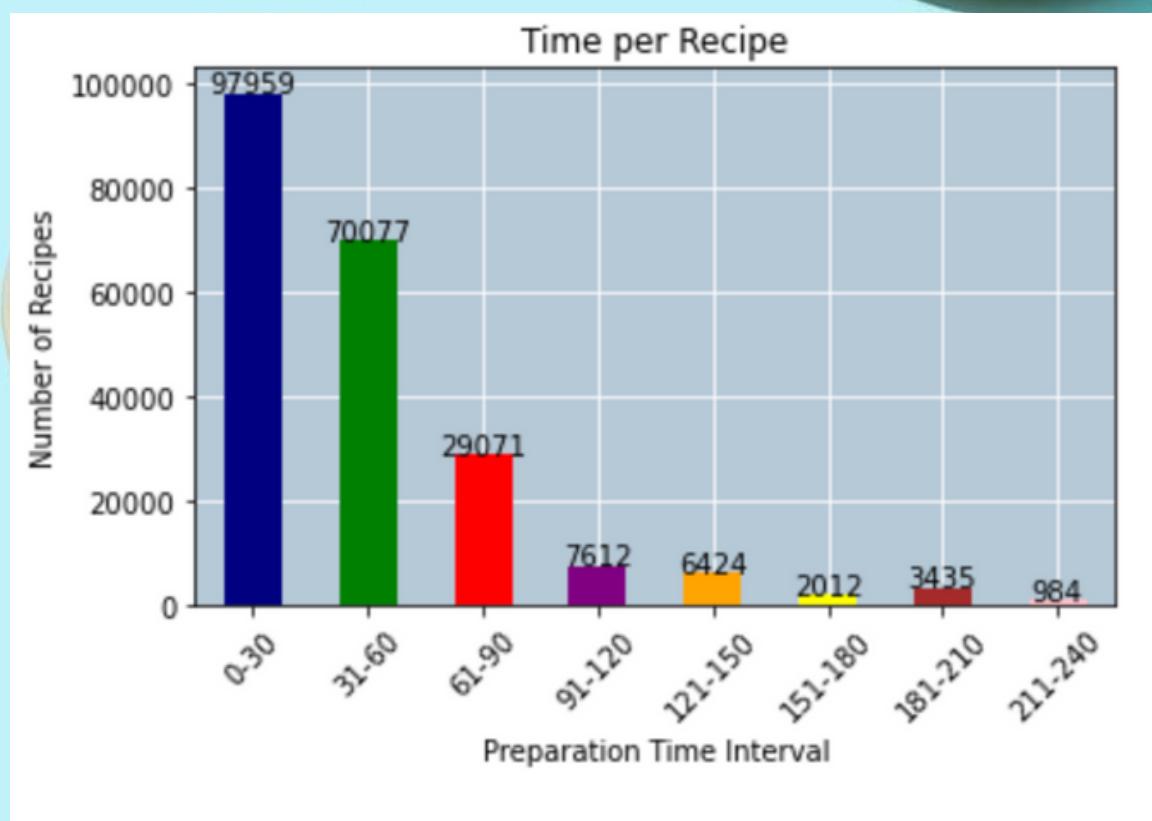
Diversity - People finding food diversity

Novelty - Loblaws, Sobeys

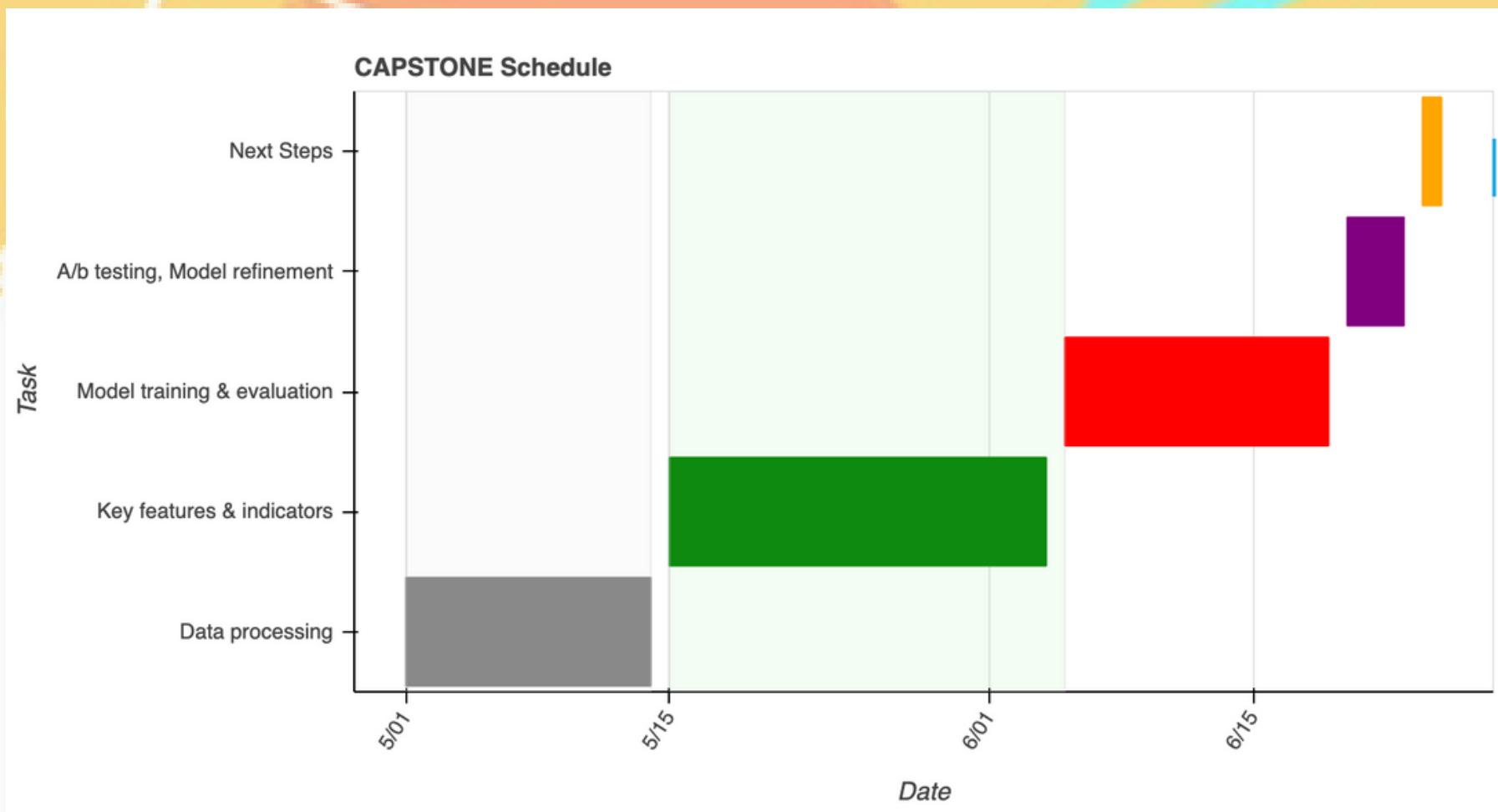
ROAD MAP



INITIAL ASSESSMENT

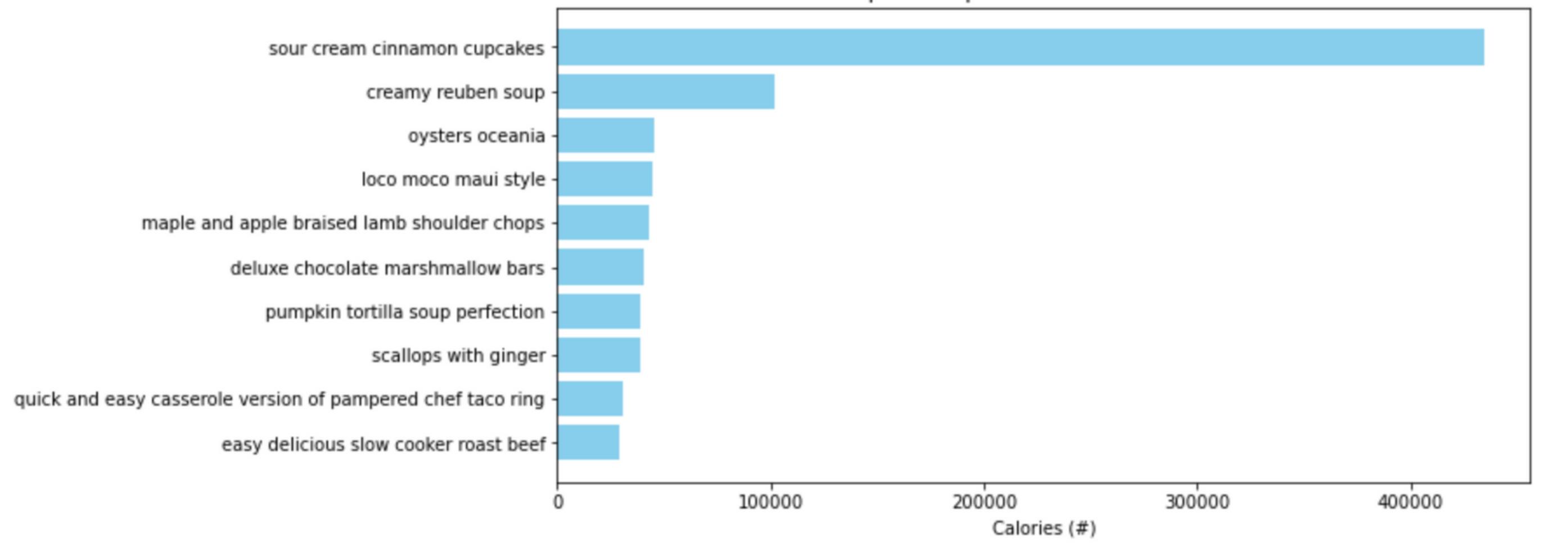


ROAD MAP

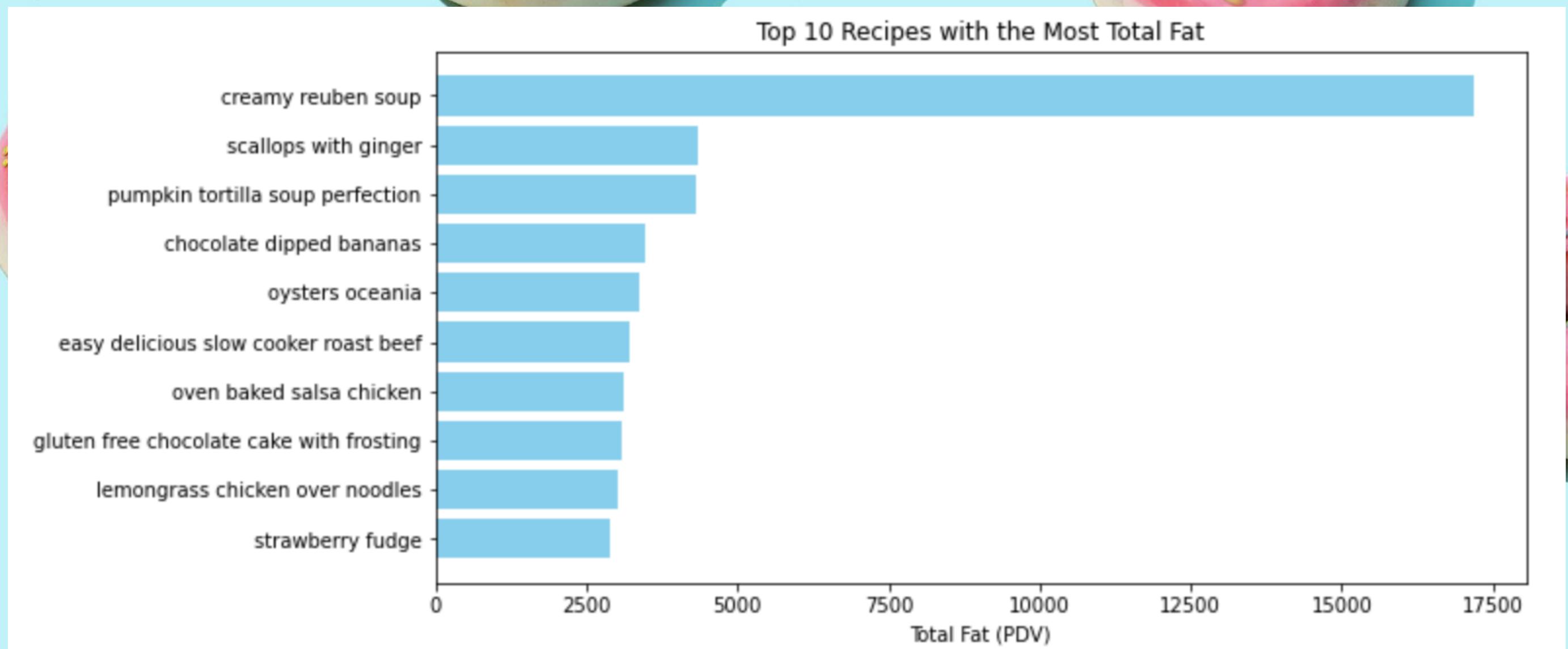


DATA PROCESSING

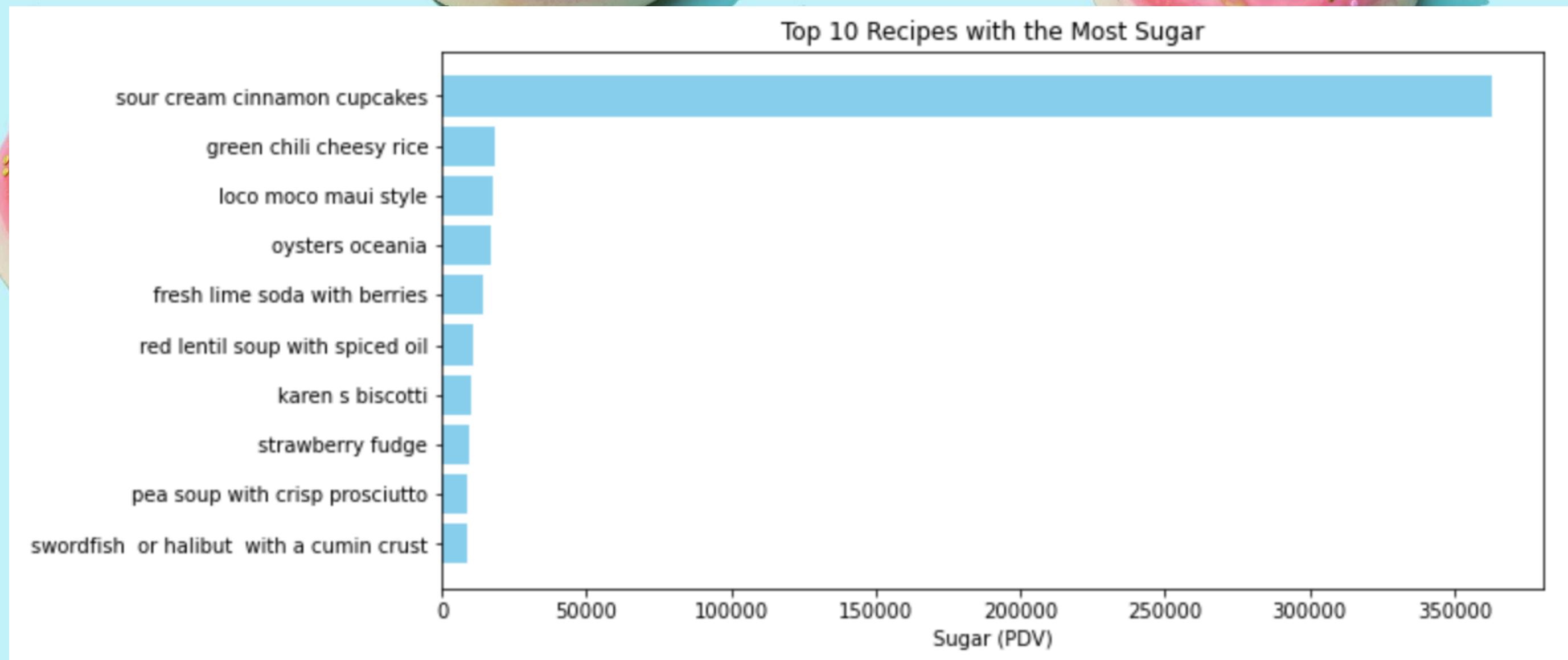
Top 10 Recipes with the Most Calories



DATA PROCESSING

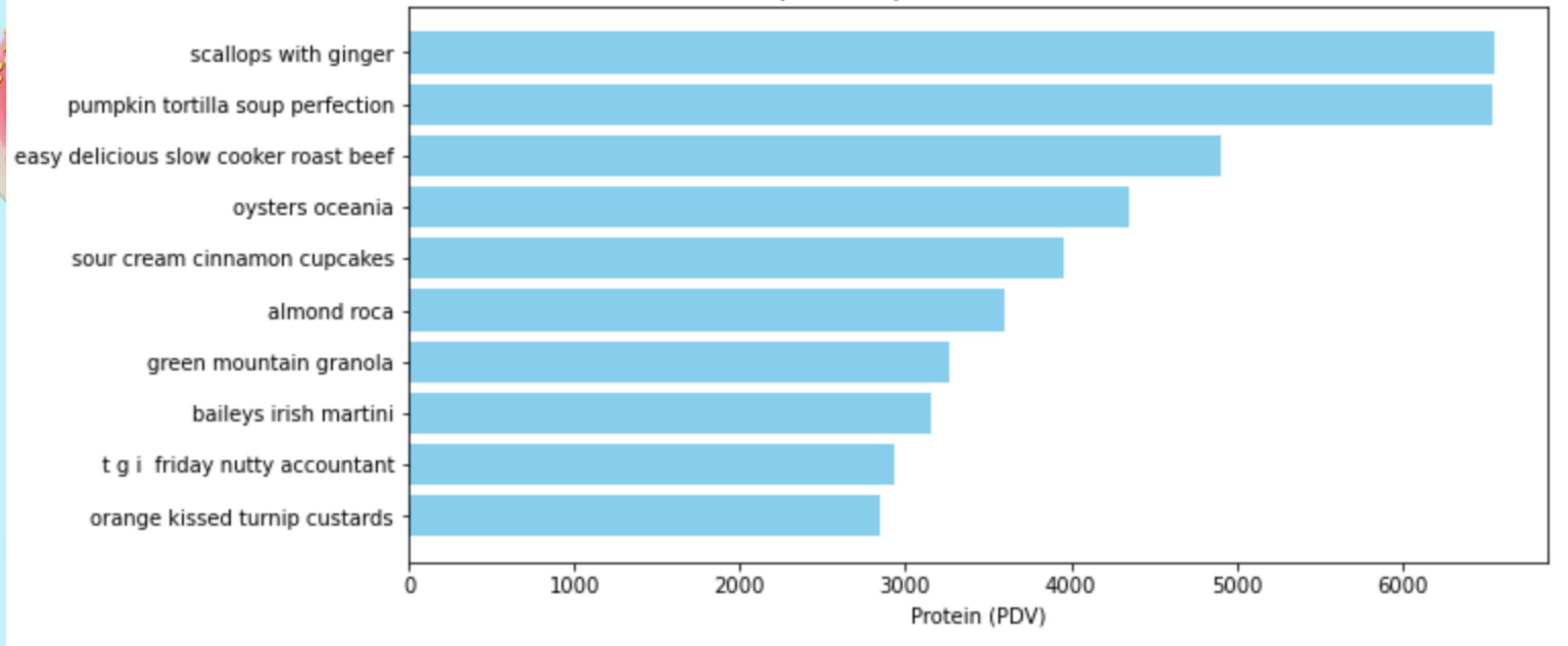


DATA PROCESSING



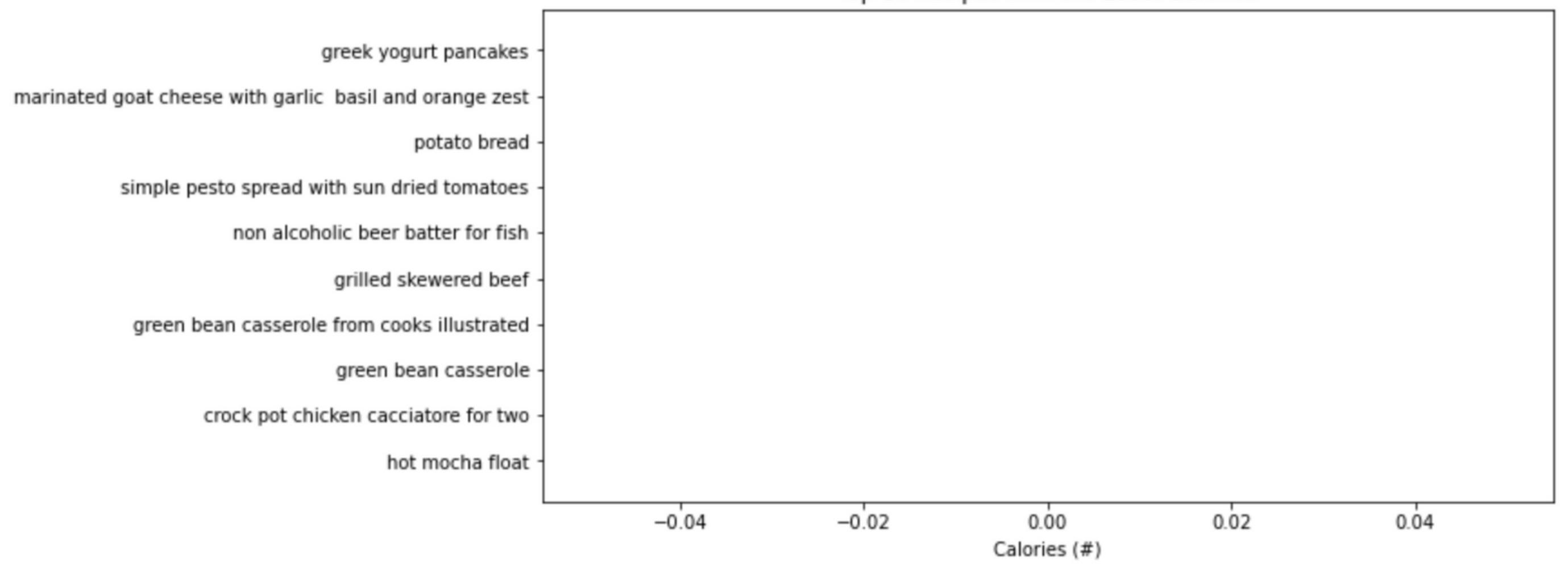
DATA PROCESSING

Top 10 Recipes with the Most Protein

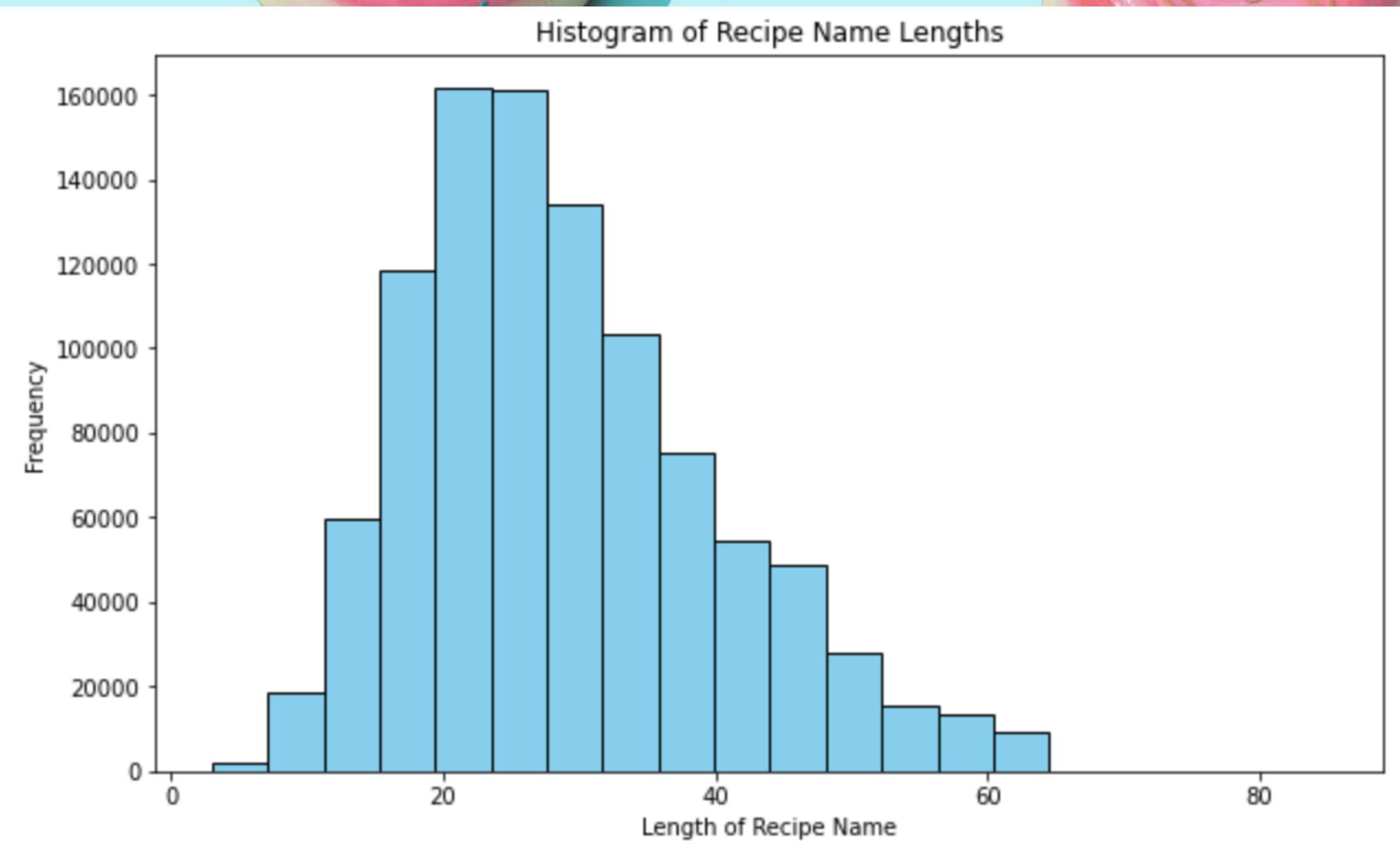


DATA PROCESSING

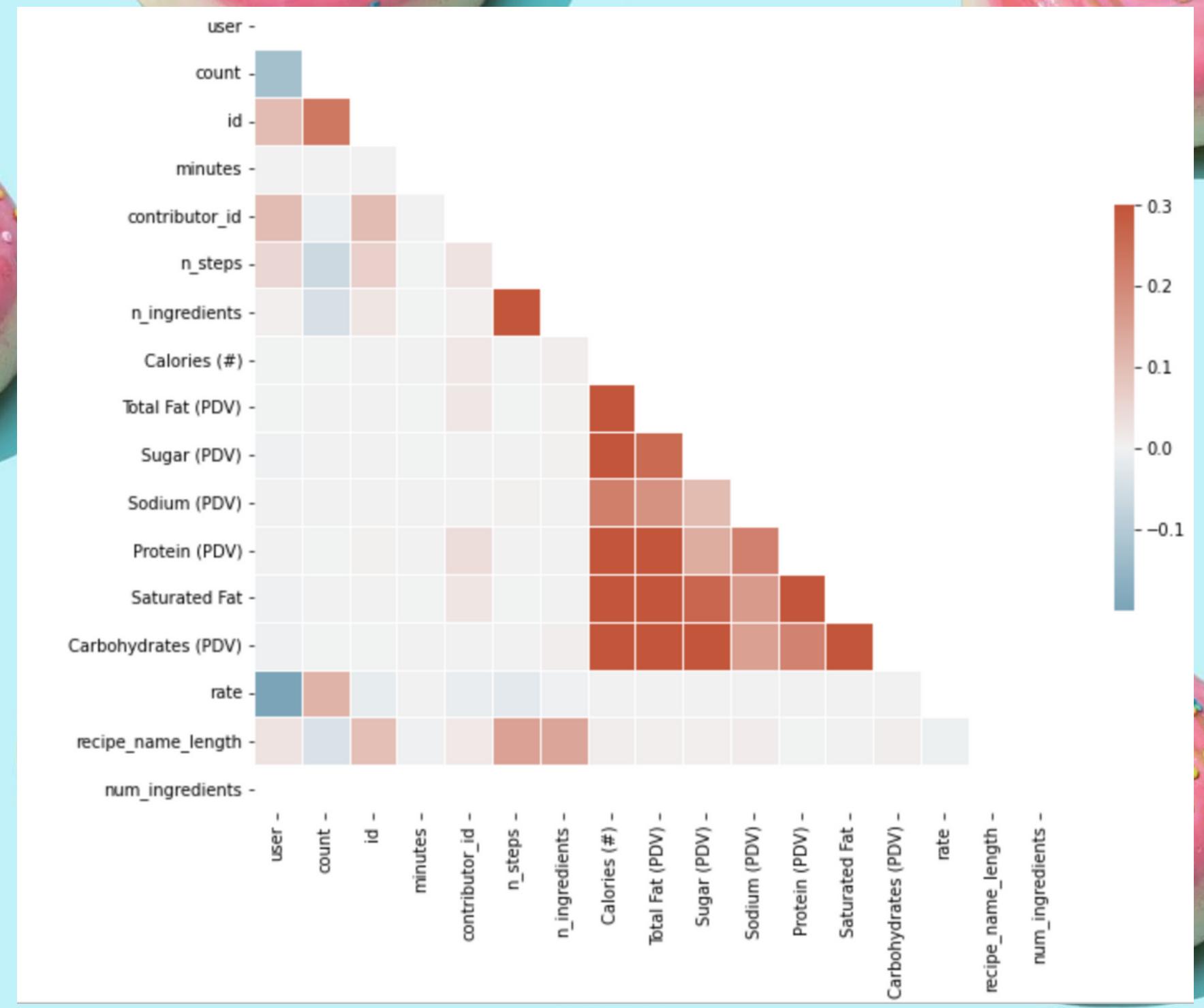
Top 10 Recipes with the Least Calories



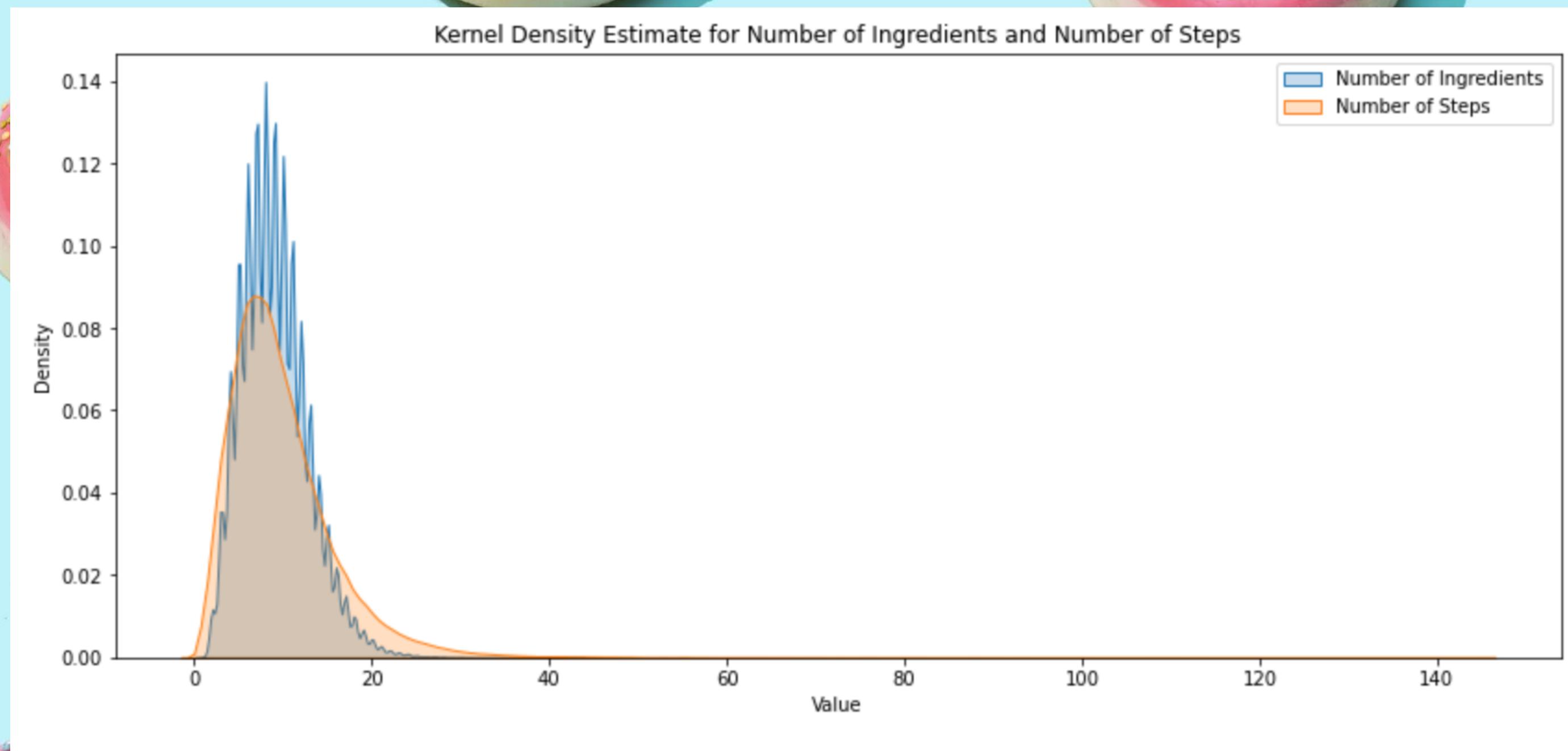
DATA PROCESSING



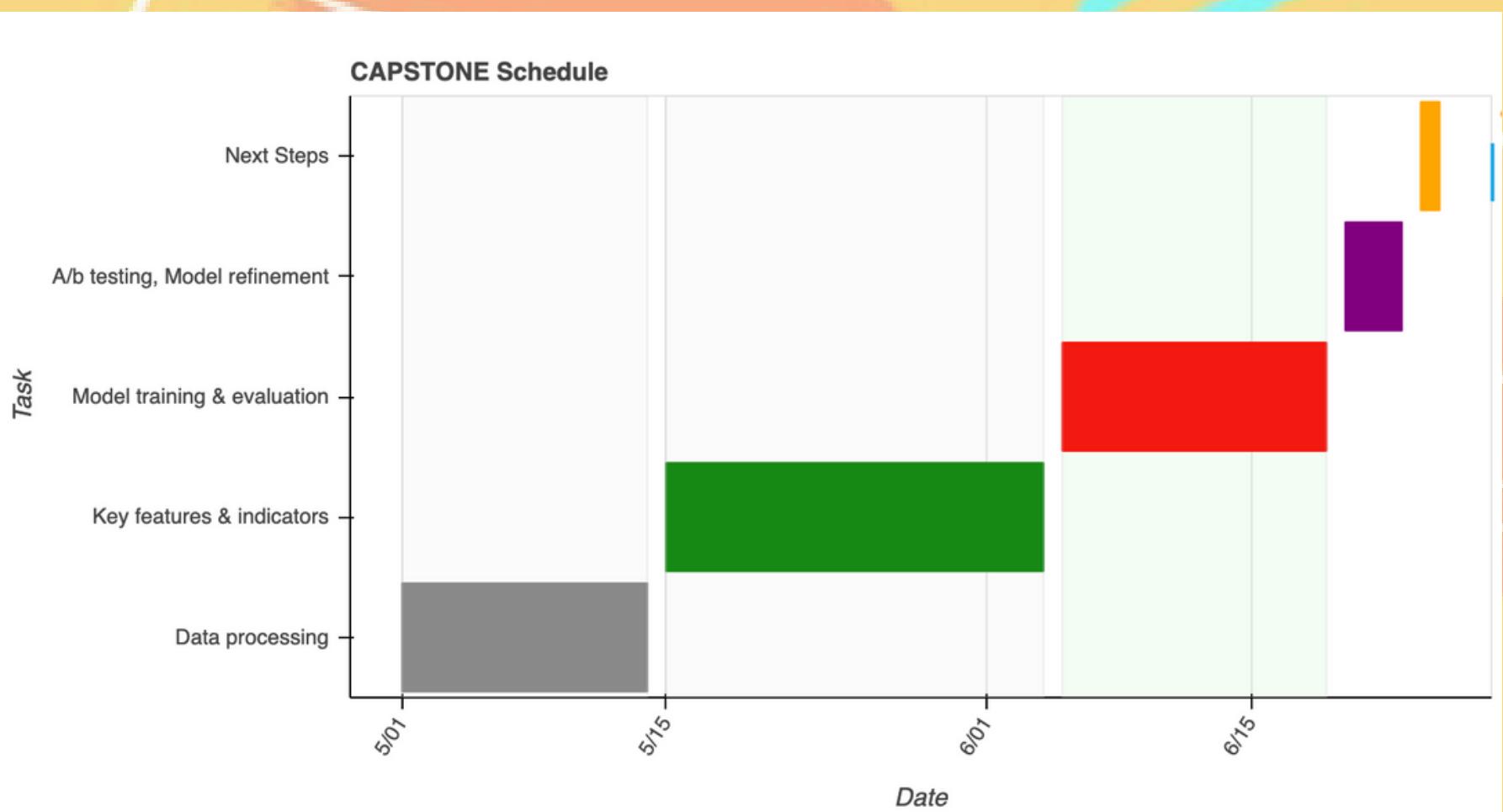
DATA PROCESSING



DATA PROCESSING



ROAD MAP



MODEL 1 & 2

TF-IDF
Cosine Similarity
Feature Engineering

FEATURES

Nutrition

Ingredients

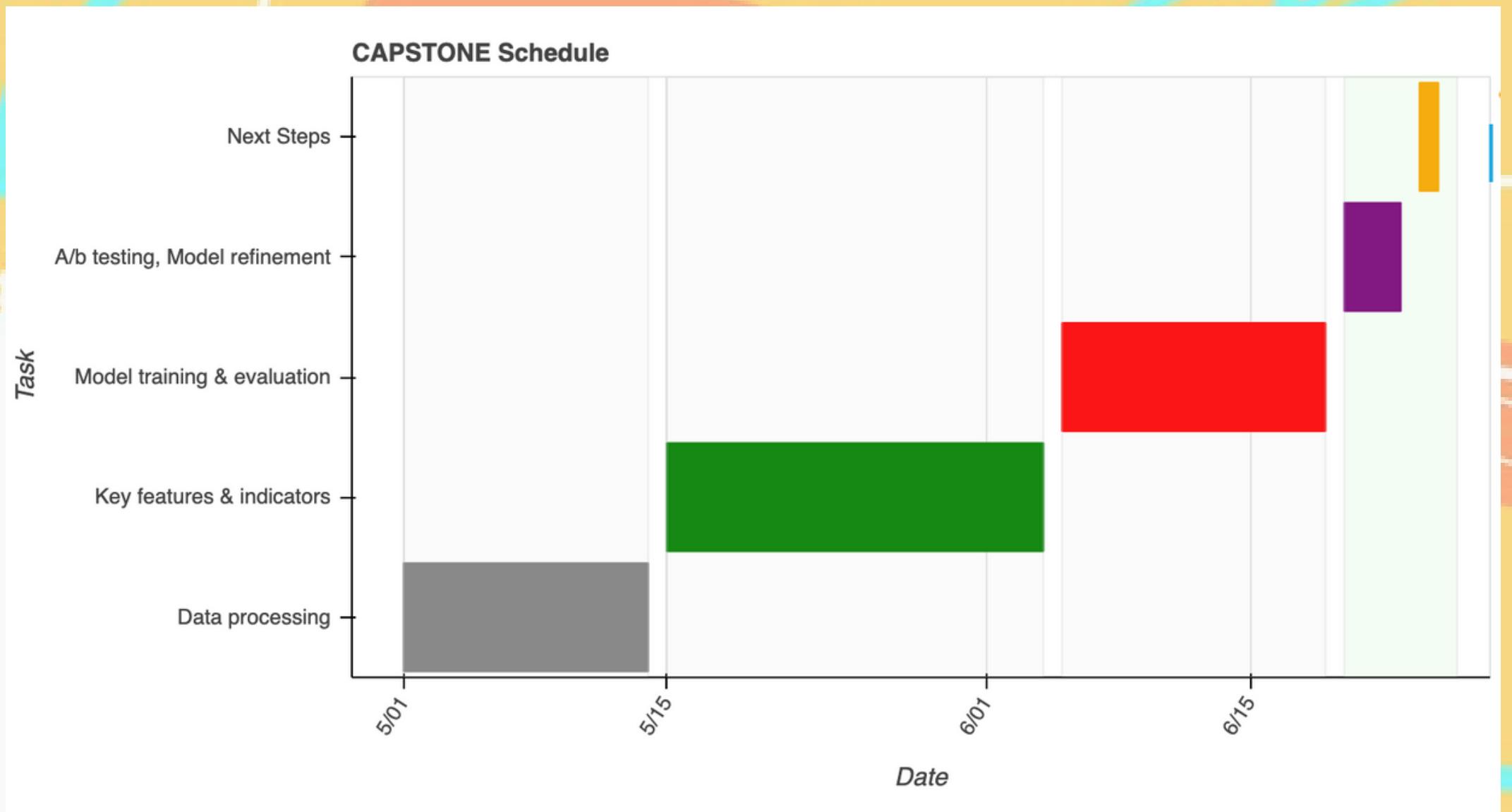
Count and Rating

MODEL 1 & 2

Count Vectorizer
Cosine Similarity

Model 1 - name based
Model 2 - Ingredient based

ROAD MAP



A/B TESTING

Hit Rate Summary

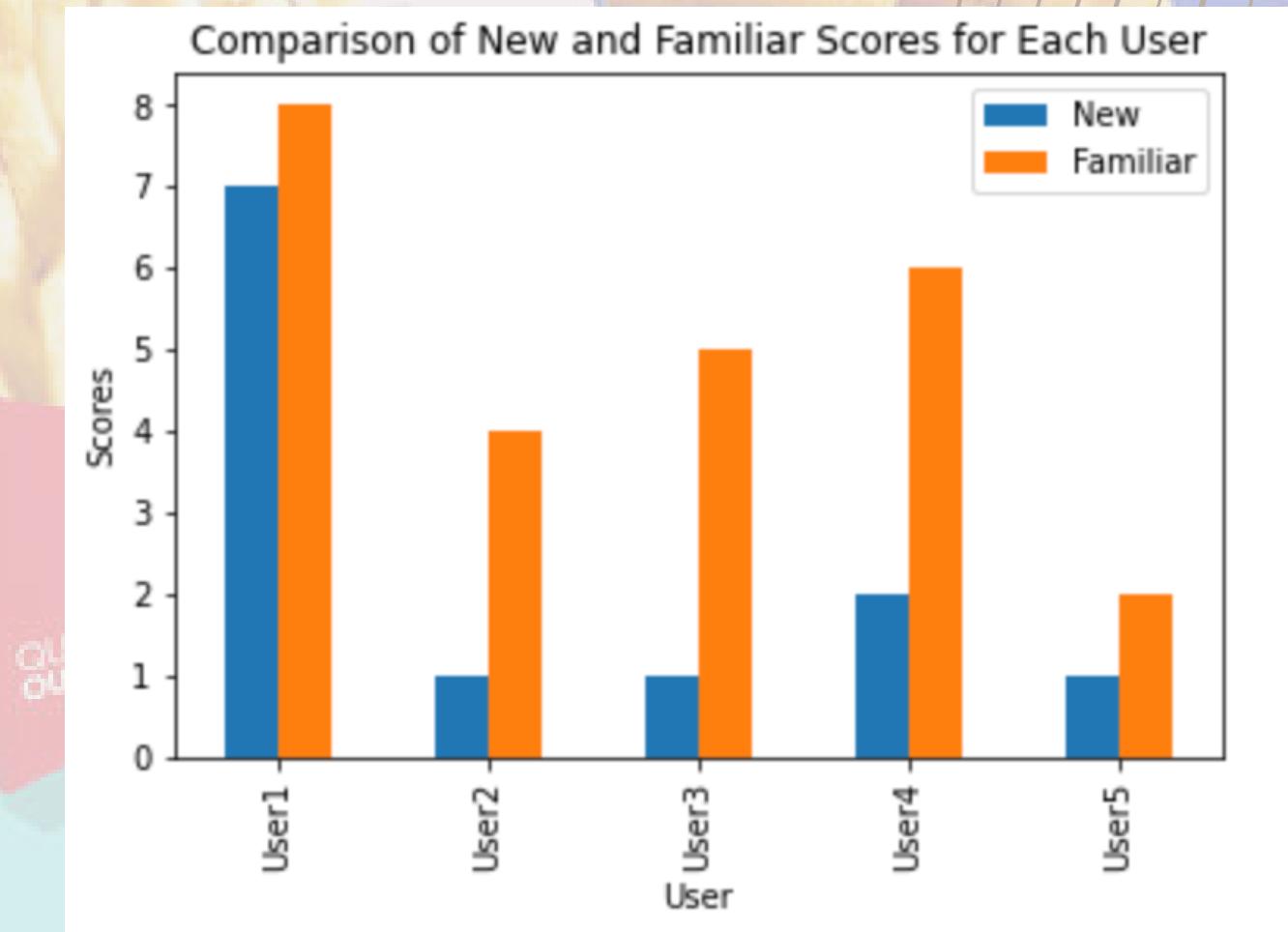
Recipe Recommender

Which recipe did you make recently?

pasta

USER FEEDBACK

5 users interacted with this data
giving an average of 2-3 hits.
This result is not terrible.



NEXT STEPS

Streamlit

Recipe Recommender

Which recipe did you make recently?

pasta

NEXT STEPS

User Behavior

User Interaction

Cuisine type

Multiple Key Words



THANK YOU

BY GIFTY SINGH