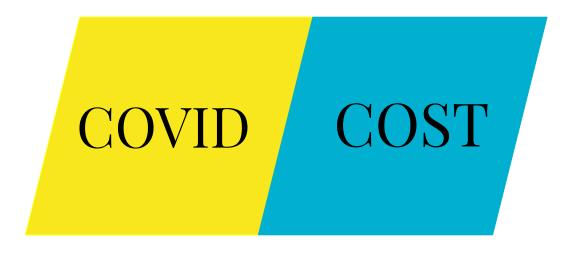


Recipe Analysis with Natural Language Processing

A. Marshall

The Two C's of Modern Cooking





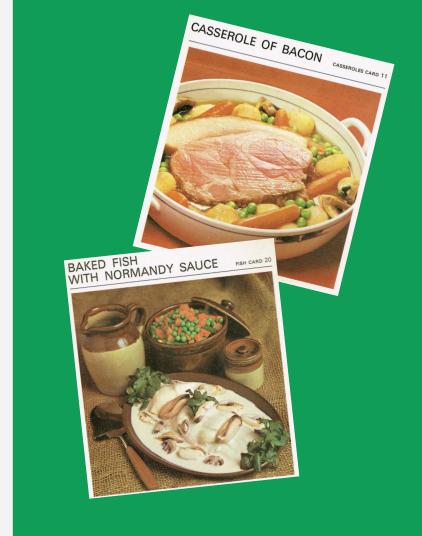


Websites, publishers, other collections

Easy Dinner Recipes

Consistency, Speed

Vet submissions, SEO, organization



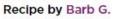
Data

- Food.com
- ~500,000 recipes
- Metadata:
 - o Tags
 - Search Terms

GRILLED GARLIC CHEESE GRITS



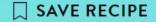




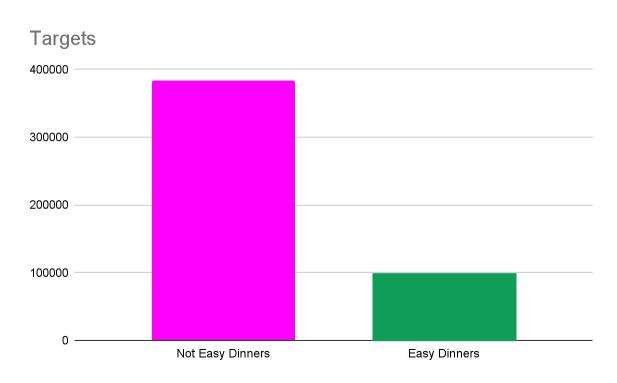


3 People talking
Join the conversation!





Target Data



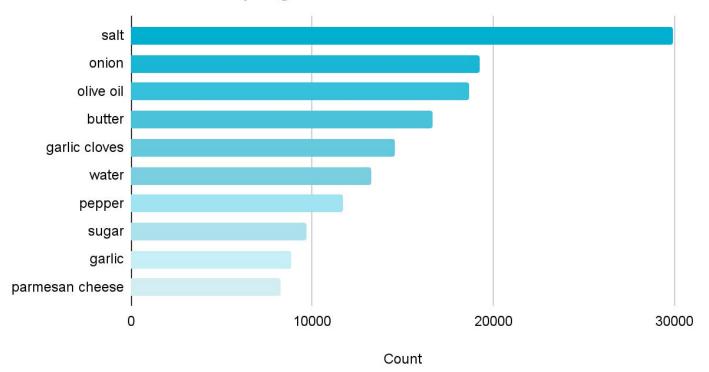
Search Term: dinner

Tags:

- easy
- 30-minutes-or-less
- 15-minutes-or-less
- 3-steps-or-less
- beginner-cook

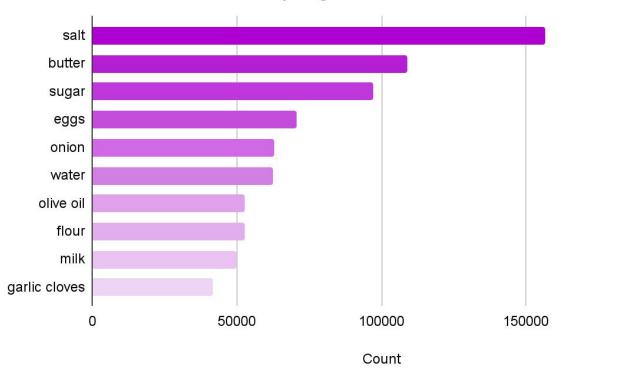


10 Most Common Easy Ingredients





10 Most Common Not Easy Ingredients



Model

- Logistic Regression
- 70% accuracy



Actual Label

Not Easy

68% correctly identified as not easy

28% incorrectly identified as not easy

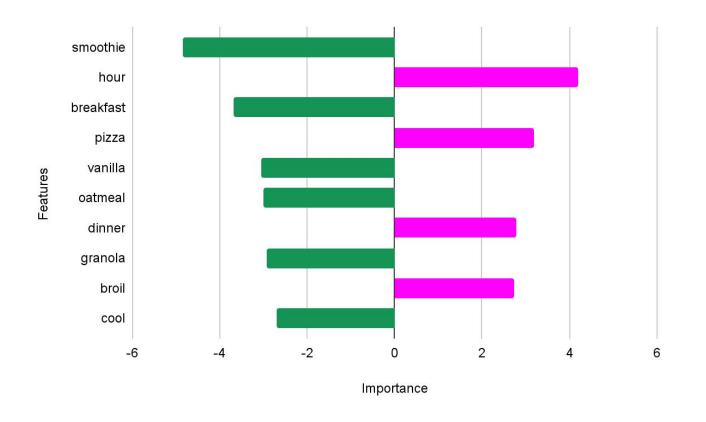
32% incorrectly identified as easy

72% correctly identified as easy

Easy

Not Easy **Predicted Label**

Feature Importance



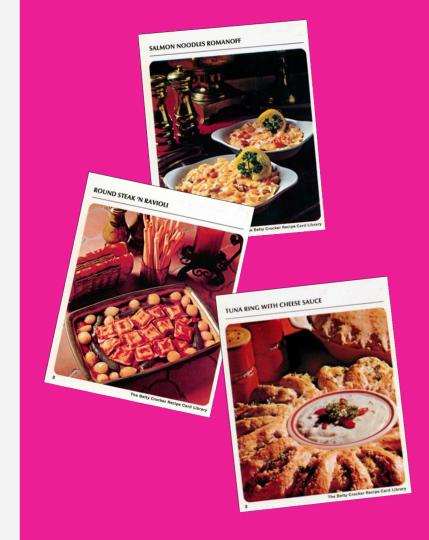


Next Steps

Increase Model Targets

Incorporate Ratings Scores

Further Data Cleaning





Images courtesy of Betty Crocker via the Gallery of Regrettable Foods

Project Details: https://github.com/AJMarshall-25/NLP_Recipe_Analysis Contact: alex.marshall842@outlook.com