

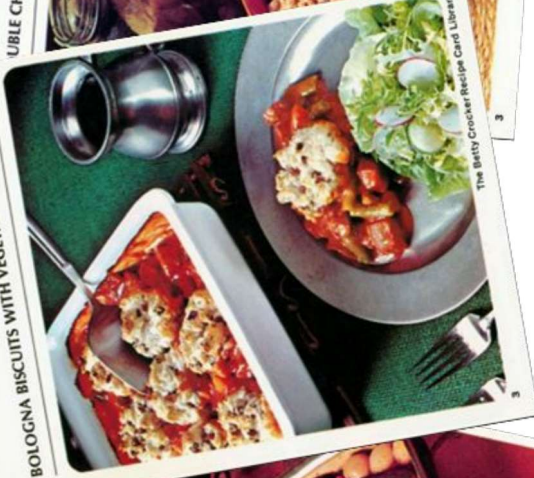
Recipe Analysis with NLP

A. Marshall

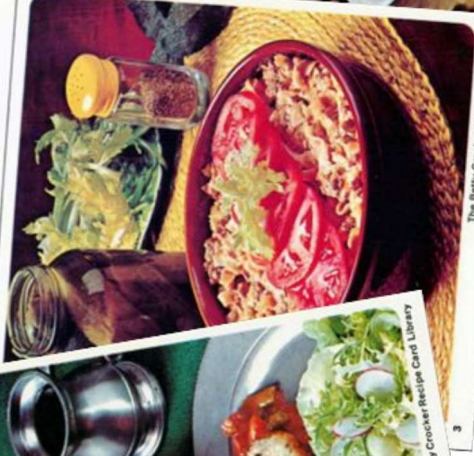
ROUND STEAK 'N RAVIOLI



BOLOGNA BISCUITS WITH VEGETABLES



CRISP CHEESE DELIGHT



NOODLES ROMANOFF



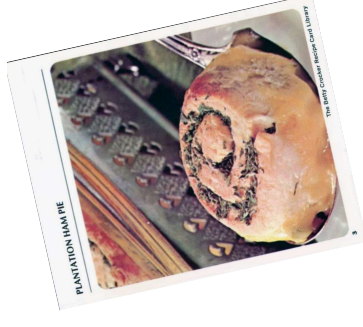
TUNA RING WITH CHEESE SAUCE



The Two C's of Modern Cooking

COVID

COST



Goal

GRILLED GARLIC CHEESE GRITS



Recipe by Barb G.



3 People talking
Join the conversation!

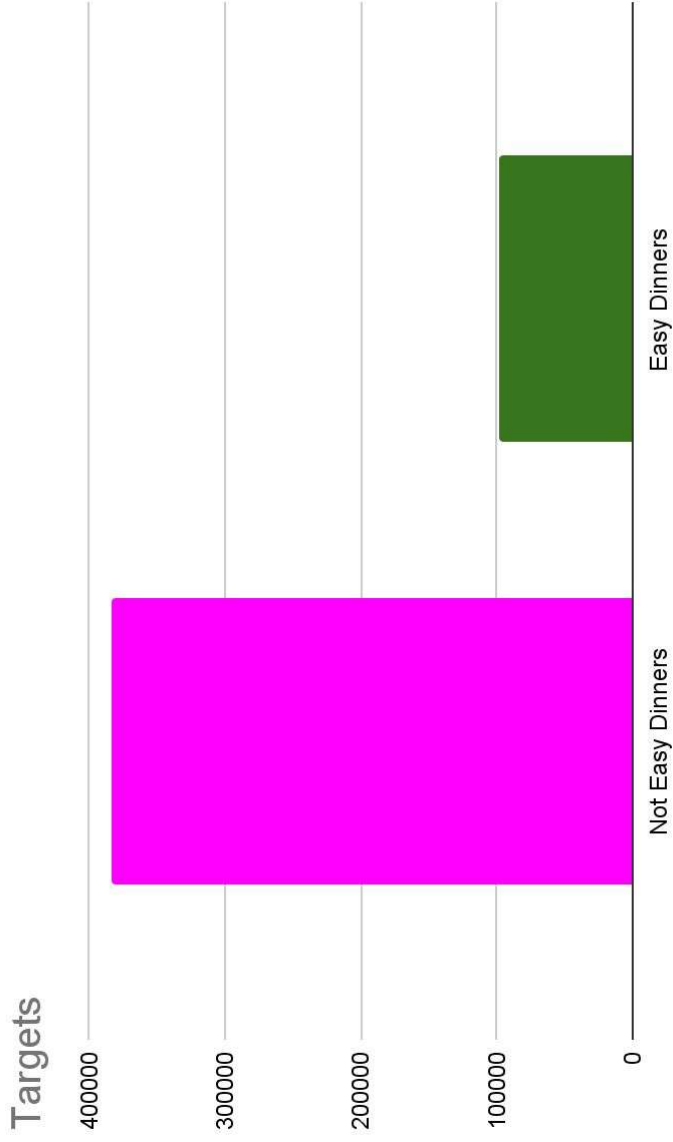


SAVE RECIPE

Data

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

Target Data

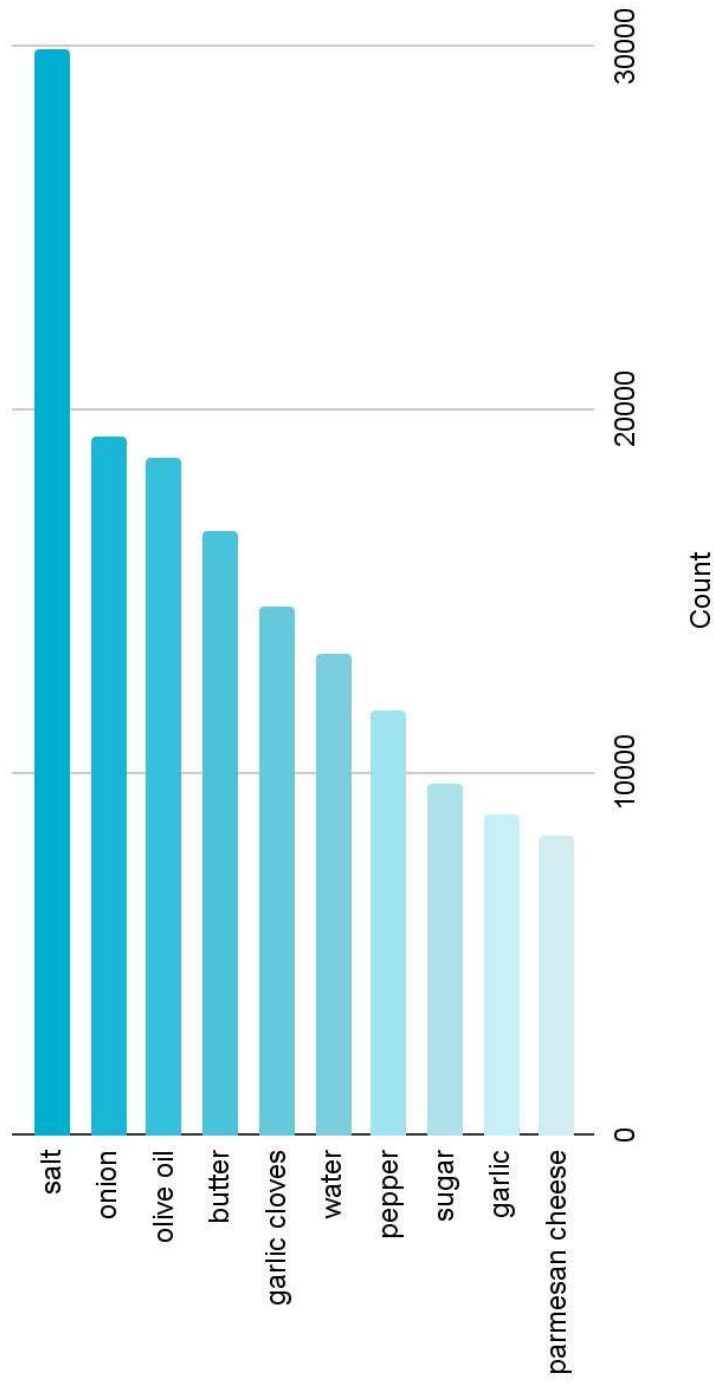


Search Term: dinner

Tags:

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

10 Most Common Easy Ingredients



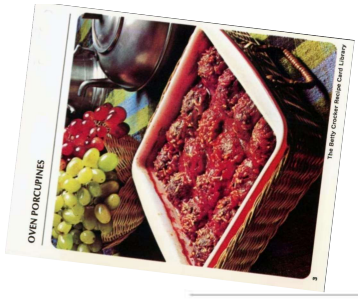
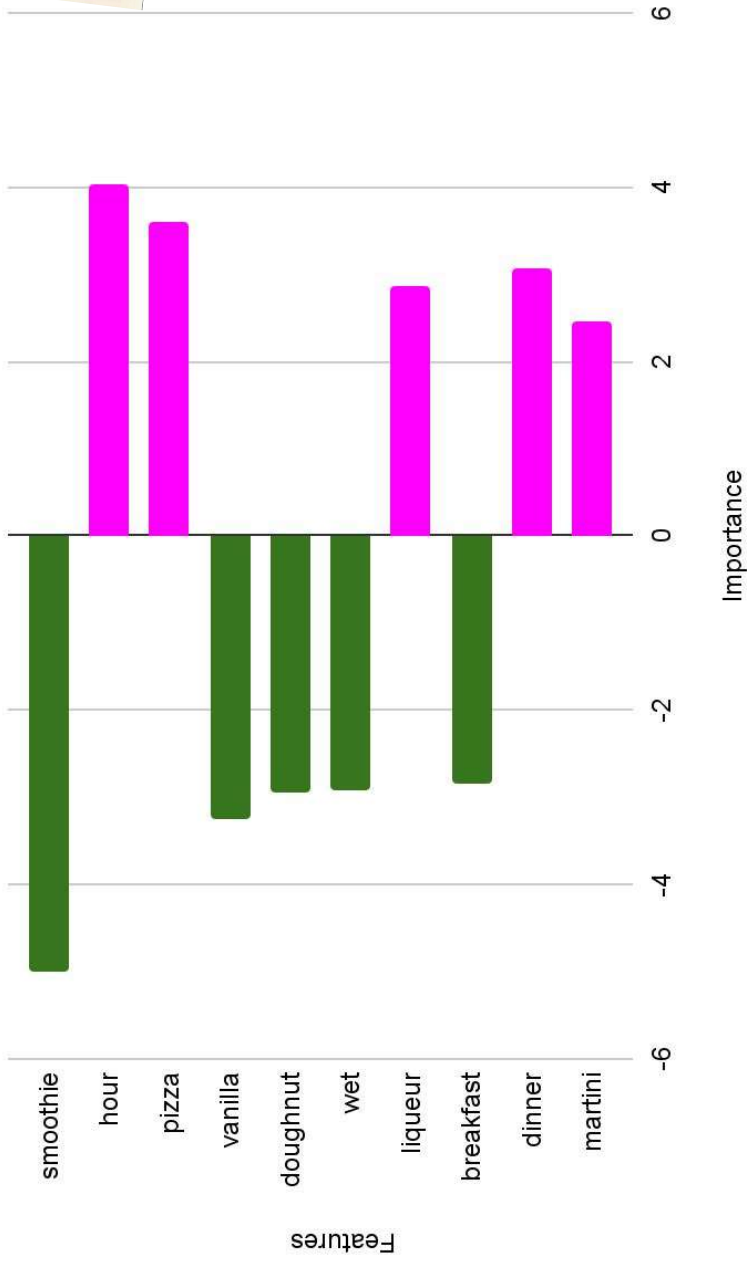
Model

- Logistic Regression
- 70% accuracy



Actual Label		Predicted Label	
Easy	Not Easy	Not Easy	Easy
68% correctly identified as not easy	32% incorrectly identified as easy	27% incorrectly identified as not easy	73% correctly identified as easy

Feature Importance



Next Steps

Increase Model Targets

Incorporate Ratings Scores

Further Data Cleaning



THANK YOU

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