

 A Recipe Recommender For Indecisive Home Cooks

Ed Lee (DSML), Jan 2023











Intro - Motivation

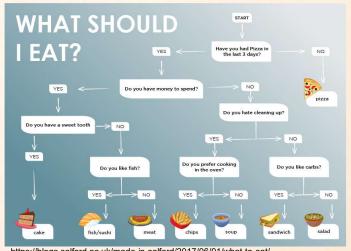






Sometimes it is hard to decide what to eat (cook):

- To get some rough idea for a starter...
 - a. Think of some vague ingredients
 - ь. Or maybe a broad category of food
- Potentially suggest some foods and their recipes from those rough idea
- Headstone: A NLP topic model of the dataset



Objective







Create a a web app that utilizes the dataset and topic model to run a recipe recommender



https://blogs.salford.ac.uk/made-in-salford/2017/06/01/what-to-eat/

Dataset

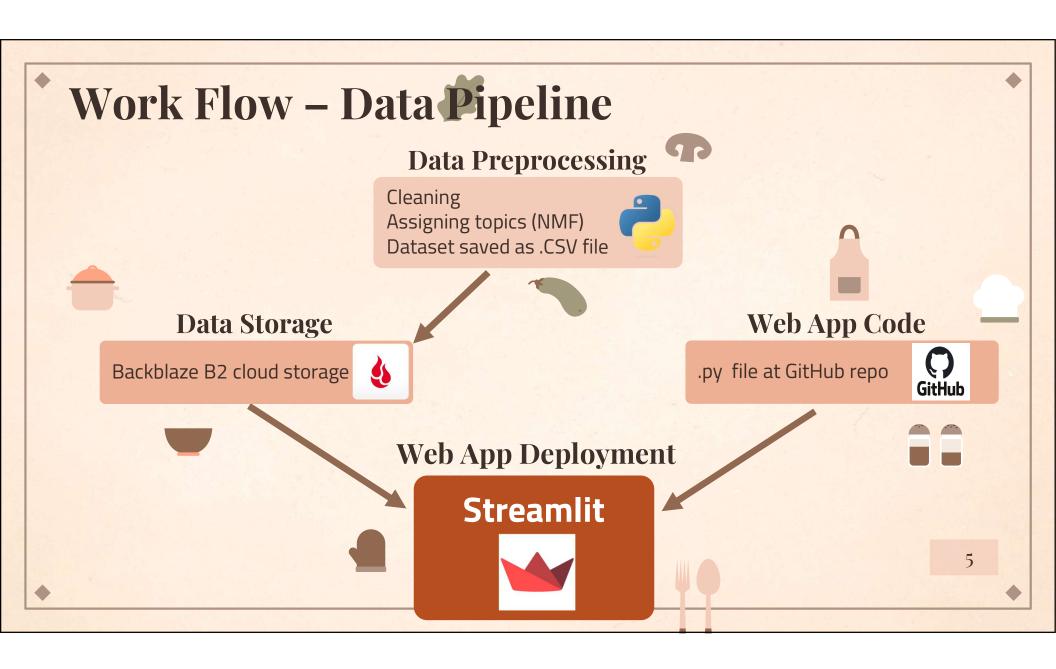
- Dataset contains recipes and its related info from food.com, obtained via kaggle.
- Raw dataset contains ~ 520k recipe articles (rows)
- After removing rows with null values for desired columns: ~ 330k entries*

* used a sample dataset of it for app showcase



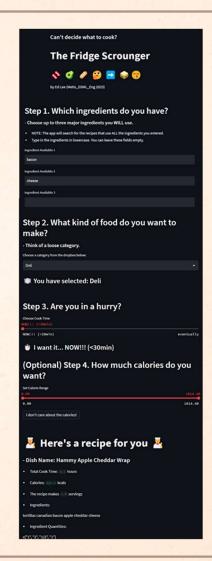






Web App Overview

- ✓ A lookup tool with a series of steps to aid making decision
- 1. Ingredients filter
- 2. Topics filter (category)
- 3. Set conditions for more details (time, calories)
- 4. Suggests a random recipe with matching criteria



Future Works



✓ More Data Cleaning

 The dataset had several columns with bad formatting for data processing e.g., Ingredient quantities, instructions' paragraphs and more...

✓ Richer Features

- Adding more layers of topic models
- -> Based on other qualitative attributes such as warm/cold, light/heavy, 'heartiness,' etc
- Automatically take some of the user condition into account (time, temperature, location)
- Conversion into Flask?



Questions/Comments?

CREDITS: Diese Präsentationsvorlage wurde von Slidesgo erstellt, inklusive Icons von Flaticon und Infografiken & Bilder von Freepik

