## Packaged Foods Data Analysis

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#### Introduction

 Datasets contains the ingredient details of all the packaged foods, serving size, brand owner information manufactured in US.

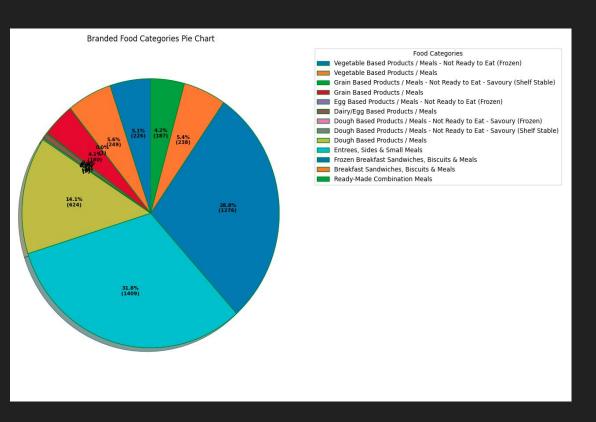
 Datasets were released by US Department of Agriculture for the ultimate goal of enhancement of public health.

#### **Project Objectives**

 Perform data analysis to obtain popular ingredients in each food category and for all over packaged food.

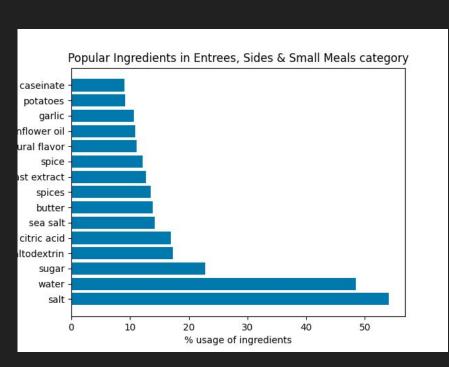
Finding the nutritious rich meal category.

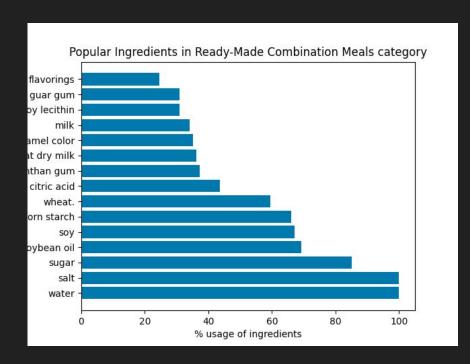
#### **Preliminary Analysis**

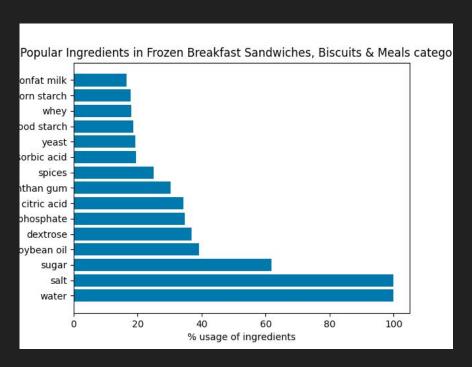


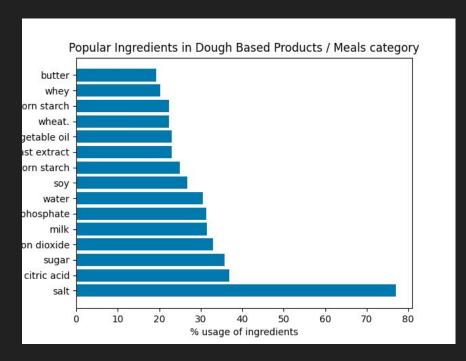
- There are 13 branded food categories.
- Packaged foods market in US has a total of 4437 varieties of food.

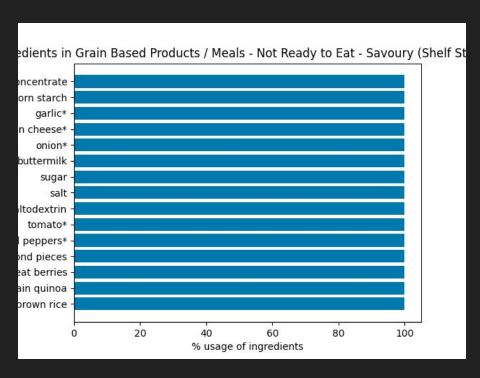
 Entrees, Sides & Small Meals and Frozen Breakfast Sandwiches, Biscuits & Meals form 60.6% of the packaged foods.

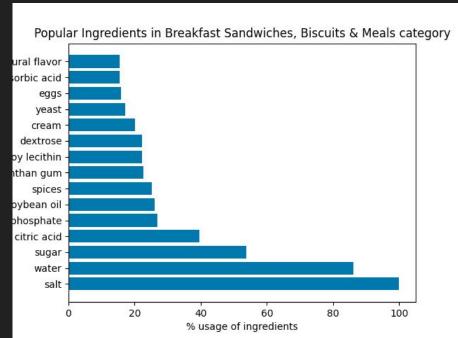


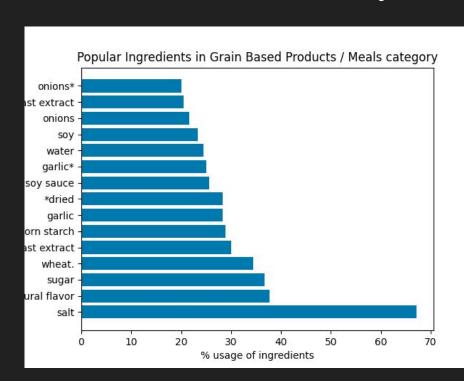


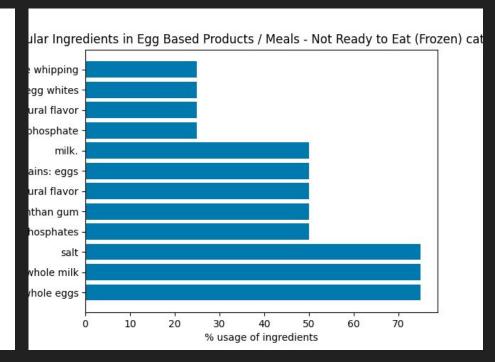


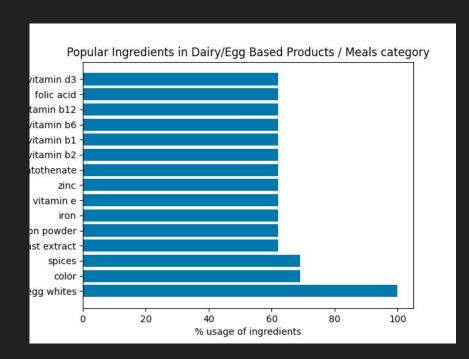


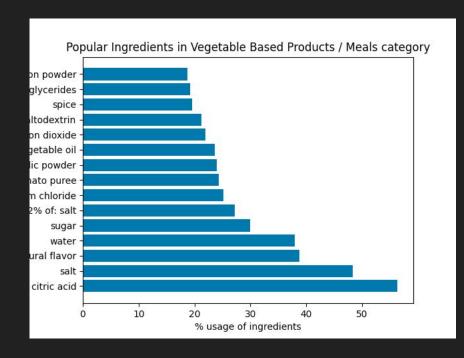


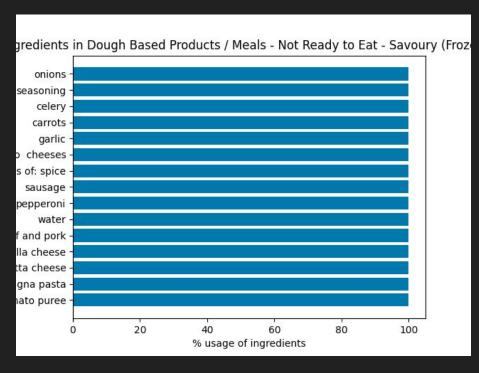


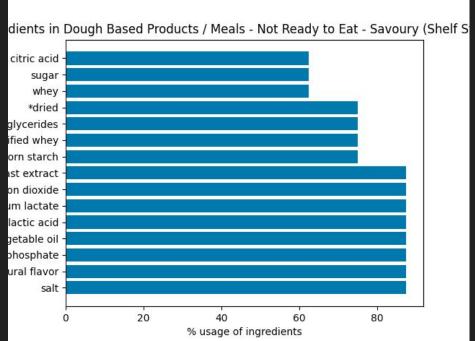


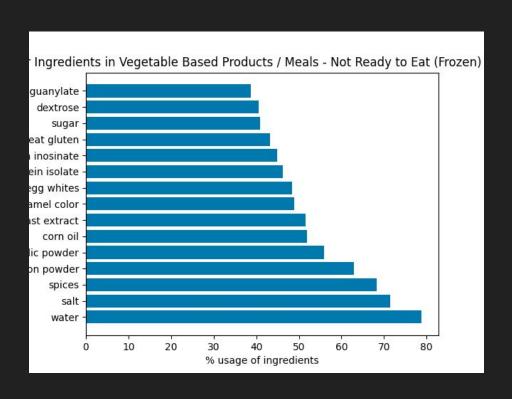




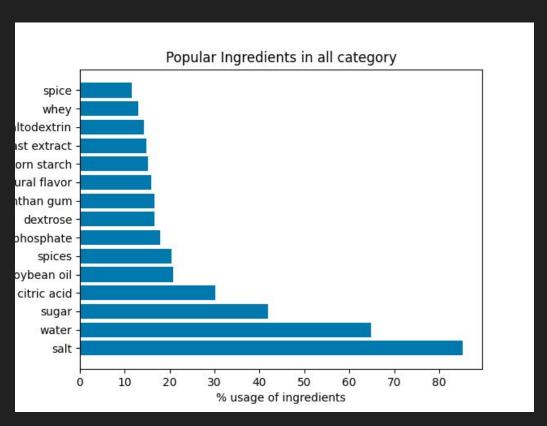




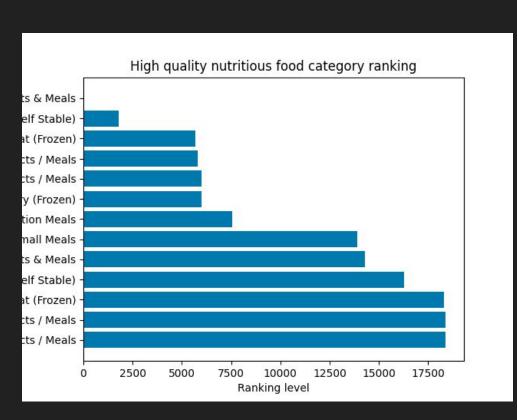




## Overall analysis of Ingredients



#### **Nutrients Analysis**

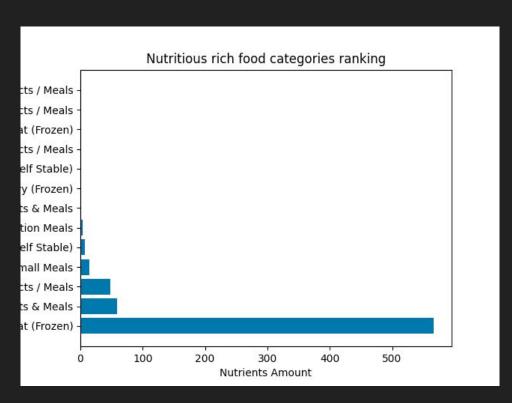


In terms of providing high quality nutrients,

- 1. Vegetable Based Products / Meals 250
- 2. Dairy/Egg Based Products / Meals 29
- 3. Egg Based Products / Meals Not Ready to Eat (Frozen) 4

categories ranks highest which forms only 6.3% of the total packages foods.

#### **Nutrients Analysis**



In terms of quantity of nutrients,

- Vegetable Based Products / Meals Not Ready to Eat (Frozen)
- Frozen Breakfast Sandwiches, Biscuits & Meals
- Grain Based Products / Meals

provides rich nutritious food.

## Implications on Manufacturing side

 Manufacturers can use to the popular ingredients information to manufacture new variant of popular packages foods.

 Manufacture can add ingredients from nutritious rich and high quality nutrients food categories to low nutritious food categories.

Manufacturers can prioritize manufacturing process based on popular ingredients and nutrients.

#### Implications on Health Side

Although nutritious, Egg Based Products / Meals - Not Ready to Eat (Frozen), Frozen
Breakfast Sandwiches, Biscuits & Meals and Dough based Products/ Meals contain more
than 40% of sodium phosphate.

• Elevated intake of sodium can raise blood pressure leading to stroke and heart attacks.

Packaged foods is the main source of sodium for american people.

#### Recommendations

 Vegetable Based Products / Meals - Not Ready to Eat (Frozen) category is the best choice in terms of quality of nutrients.

Vegetable Based Products / Meals category is the best choice in terms of amount of ingredients.

• Low sodium food is advisable.

# Thank you