

NUTRITIONAL BENEFITS IN CEREALS

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WHAT IS OUR GOAL???

A detailed analysis on the Breakfast Cereals available on the market_

- To understand the nutritional benefits
- To get a view on the Contents in these Cereals
- To find the Correlations of the contents in the cereal
- Does the brands following the FDA recommendations



WHAT IS IN THERE?

A multivariate dataset describing 77 commonly available breakfast cereals based on the information now available on the newly mandated F & DA food label.

- 77 Cereals with 16 features
- Brands: American Home Food Products, General Mills,

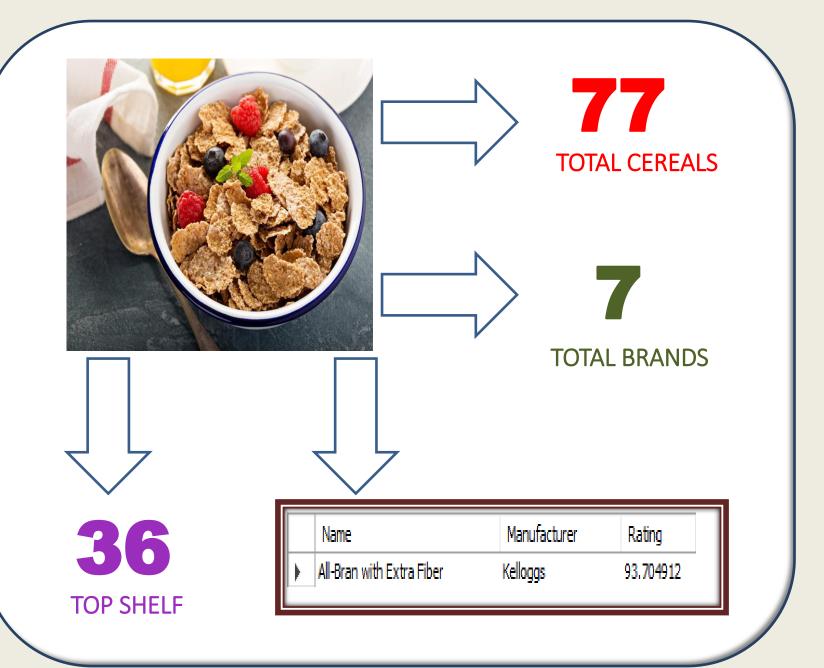
Kellogg's, Nabisco, Post, Quaker Oats, Ralston Purina

POINTS TO REMEMBER

- Adult should consume between 20 and 35 g of dietary fibre per day
- The recommended daily intake (RDI) for calories is **2200 for** women and **2900 for men**
- calories come in 3 food components:
 - √ 9 calories per grams of fat
 - √ 4 of carbohydrate and protein
- No more than 10 % of calories should be consumed from simple carbohydrate(sugar) and no more than 30% should come from Fat
- RDI of protein is **50g for women and 63g for men**
- The balance of Calories should be consumed in the form of

Complex Carbohydrates

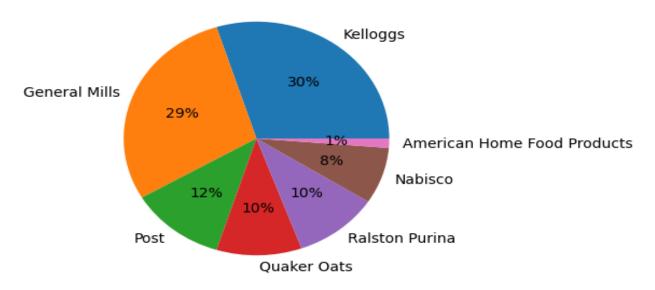






Market Share of Manufactures

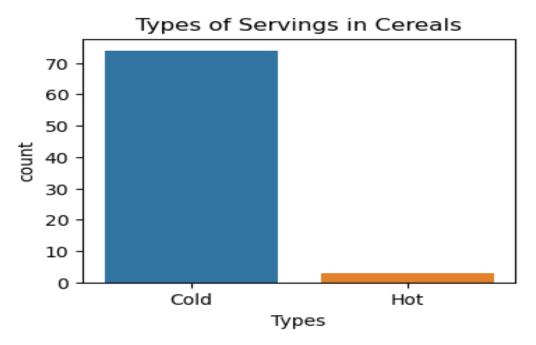
Share of Manufactures in Cereal Market %



There are a total of 11 brands/ manufactures making cereals

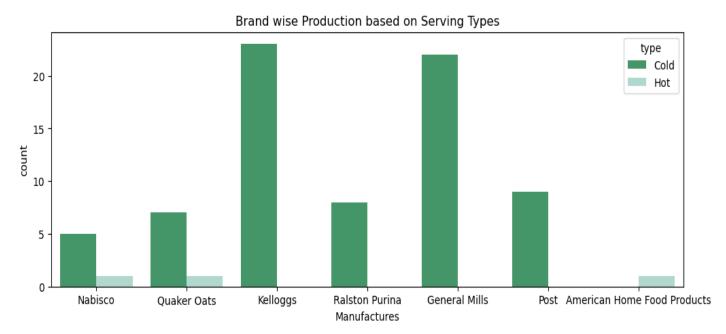
- •Out of them KELLOGG'S holds 30% and GENERAL MILLS holds 29% making them the highest market shares
- American Food Products holds the smallest market share
- QUAKER OATS being the famous brand holds only 10% of cereals in the market

Types of Servings



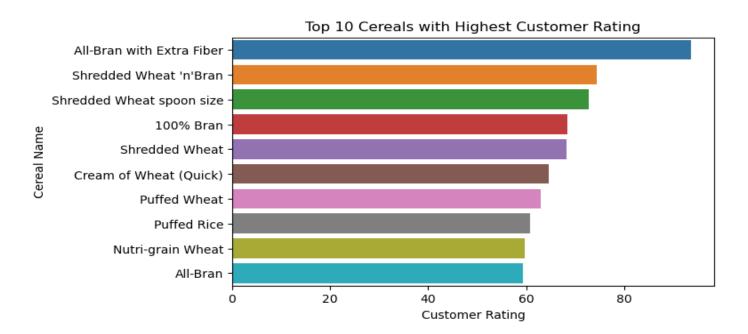
- Cereals are available in 2 Serving Types
- Cereals have more varieties in **COLD TYPE**
- 74 varieties in Cold serving and 3 varieties in Hot Serving

Manufactures Production based on Serving Types



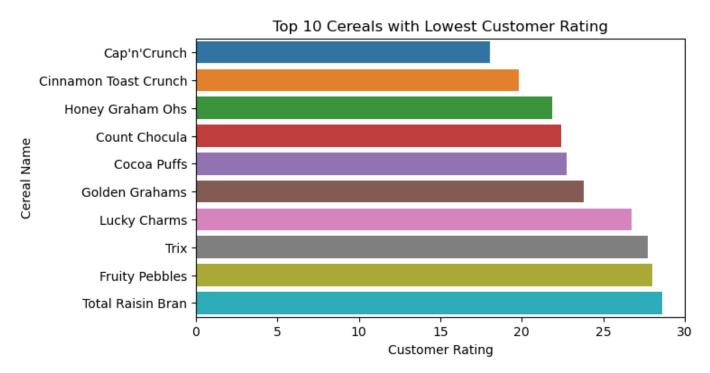
- Kellogg's & General Mills producing the highest total of Cold served Cereals
- Only 3 brands adds Hot Serving type in the Market

TOP 10 Cereals with highest Customer Rating



- > ALL-BRAN WITH EXTRA FBER is the highest rated
- ➤ Cereals contains the Wheat/Bran has got more ratings.
- Customers prefers cereals with fibre to maintain a balanced diet
- ➤ Kellogg's, Nabisco & Quaker Oats produces the highest rated Cereals

TOP 10 Cereals with lowest Customer Rating



- > CAP'N'CRUNCH is the lowest rated
- ➤ Varieties in Cereals are not welcomed by customers
- > Customers do not prefers less healthy cereals
- ➤ General Mills & Quaker Oats produces the lowest rated Cereals

Carbohydrate in Cereals

Highest Carbohydrate





Lowest Carbohydrate





Calories in Cereals



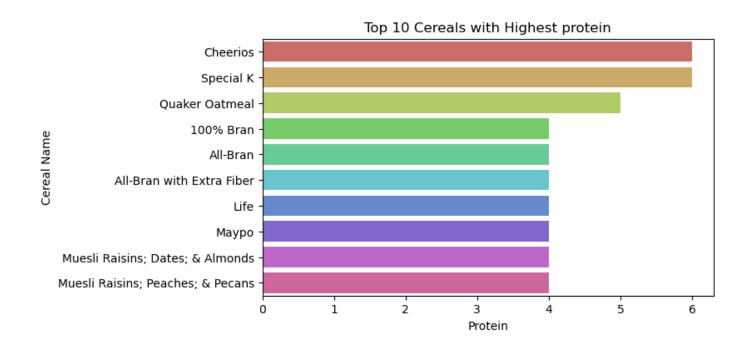
There are no cereals which provides the minimum calorie included in a meal, i.e. 200

Highest Calorie



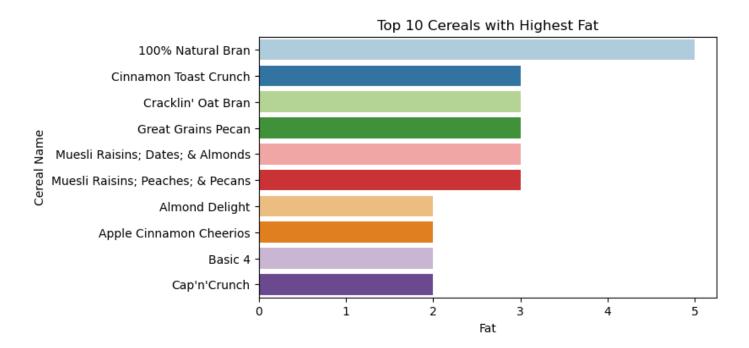
	Name	Manufacturer	calories
•	Mueslix Crispy Blend	Kelloggs	160

TOP 10 Cereals based on Protein



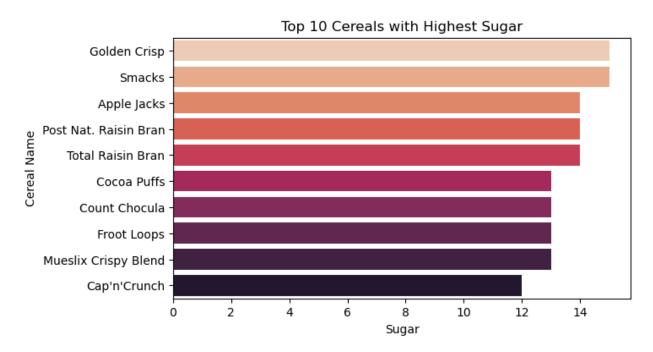
- > Cereals containing the Raisins, Dates & Almonds have less Protein comparing to the Bran cereals.
- > Customers does not considering Protein while Rating the cereals

TOP 10 Cereals based on Fat content



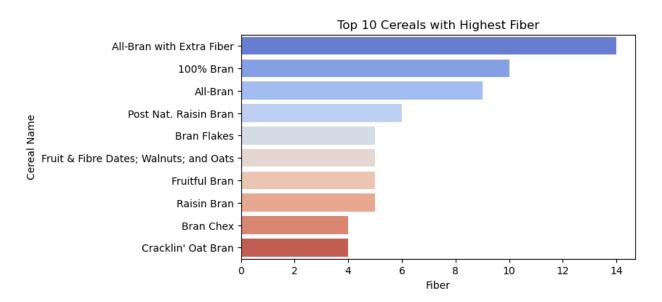
- >Cereals containing dry fruits have more Fat content than other cereals
- > Cereals with high Fat have low ratings
- ➤ Ralston Purina and Quaker Oats are high producers

TOP 10 Cereals based on Sugar



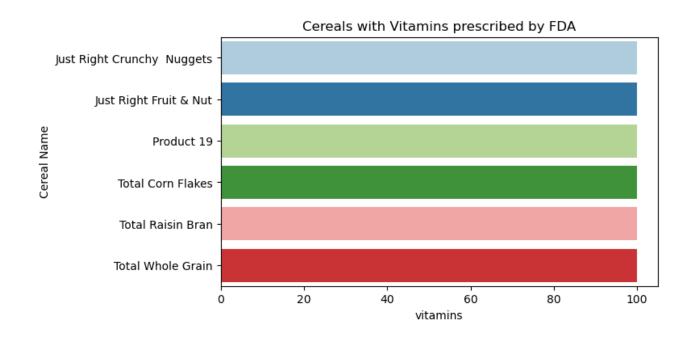
- Adding more fruits & dry fruits results in increased sugar level in Cereals
- > Customer does not prefer High sugar in cereals
- > LESS SUGAR = HIGH RATING

TOP 10 Cereals based on Fibre



- > ALL-BRAN WITH EXTRA FBER has the highest fibre
- ➤ Customers prefer cereals with high fibre content
- > Bran Cereals always have high fibre
- > Kellogg's produces most of the high fibre cereals in the market

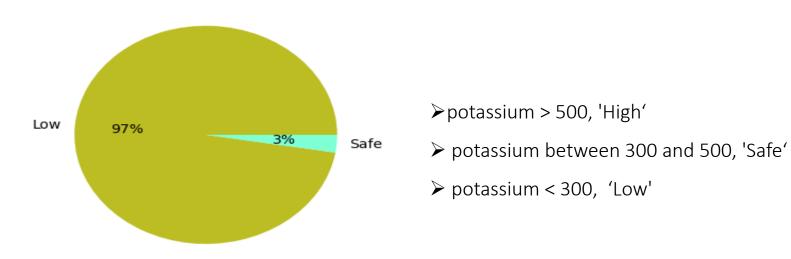
Cereals with Vitamins & Minerals prescribed by FDA



- ➤ Kellogg's & General Mills produces Cereals with Vitamins & Minerals, i.e. 100 prescribed by FDA
- > They are not highly preferred by Customers

Let's check the Potassium Level

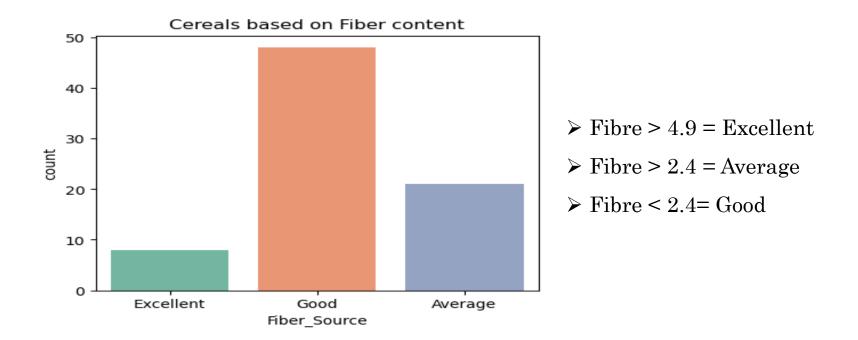




➤Only 3 % of cereal have a "Safe" potassium content

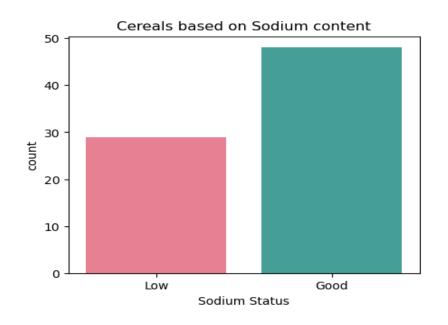
	Name	Manufacturer	potass	potass_status
)	All-Bran	Kelloggs	320	Safe
	All-Bran with Extra Fiber	Kelloggs	330	Safe
	•			

How about Grouping the Fibres?



- ➤8 cereals have "Excellent" fibre content prescribed by FDA
- ➤ 48 cereals have "Good" enough fibre in them

What about Sodium?



- ➤ sodium >= 500,'High'
- ➤ Sodium > 140, 'Good'
- ➤ Sodium <= 140, 'Low'
- > Sodium = 0 'No Sodium'

	Highest Sodium
•	320

- There are NO cereals with "High sodium"
- ➤ 48 cereals falls under "Good" category and 29 cereals have "Low" sodium category

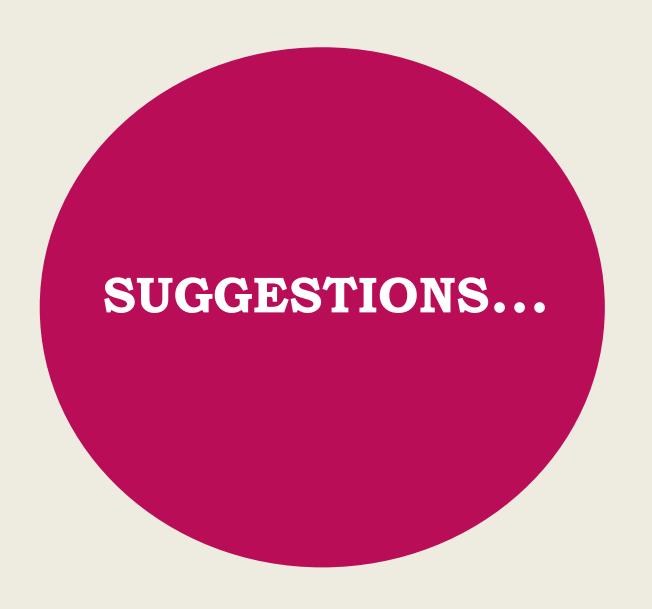


LET'S CONCLUDE..



There are 77 cereals produced by 7 Manufactures

- ❖ All-Bran with Fibre by Kellogg's is the most in demand cereal with a rating of 93.7
- * Kellogg's and General Mills produces the top number of Cereals
- ❖ Cereals with highest calories have lowest Rating
- ❖ High calories results in High sugar
- Customers tends to give higher rating based on popularity of Brands
- ❖ Cereals with more fibre gets more Rating Customers give low rating for cereals with high Calorie



SUGGESTIONS..

