

EDA for Your Everyday



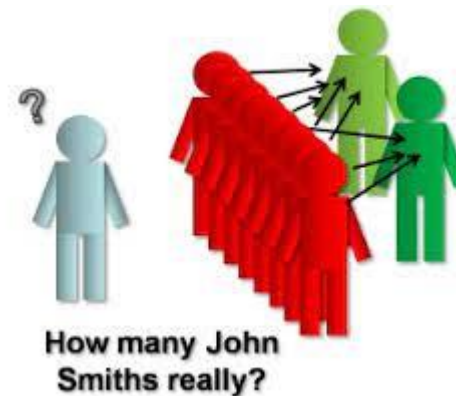
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Data Exploration

- Understanding our data
 - Age (Numeric)
 - Do you usually eat breakfast everyday (Categorical Binary)
 - What time do you usually eat breakfast (Numeric)
 - What do you usually have for breakfast (Text feature)
 - How often do you repeat the same breakfast (Numeric, # of days in a week)
 - Do your breakfasts differ on weekdays vs weekends
- Summary statistics/information
 - Response size
 - Average age: 25
 - Categories of “do you usually eat breakfast everyday”: Yes, No
 - Range of time people eat breakfast: 6am - 12pm
 - How often do you repeat the same breakfast: max = 7 days/week

Data Cleaning

- Need reliable data to extract information
- Missing values:
 - Kabir never eats breakfast
 - Might need to impute with a common breakfast item so we don't lose data about that student
- Duplicate data
 - Multiple entries from the same student
- Data type conversion
 - Date could be recorded as text



Data Cleaning

- Outliers
 - Rashmi eats avocado toast **EVERY** day
 - How extraordinary are the outliers?
- Cleaning free text fields (What do you eat for breakfast?)
 - Standardize words (capitalization, abbreviation)
 - Remove stop words
 - Tokenization
 - “Eggs, Toast, Hot Sauce, Coffee”



“Avocado Toast”



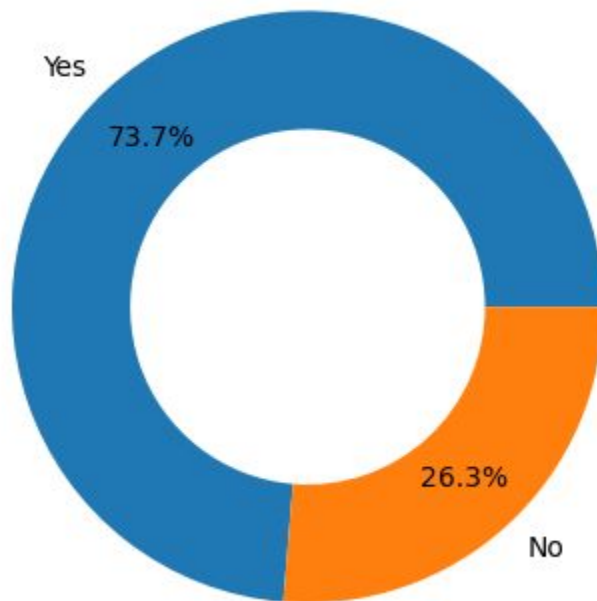
“avocado toast”



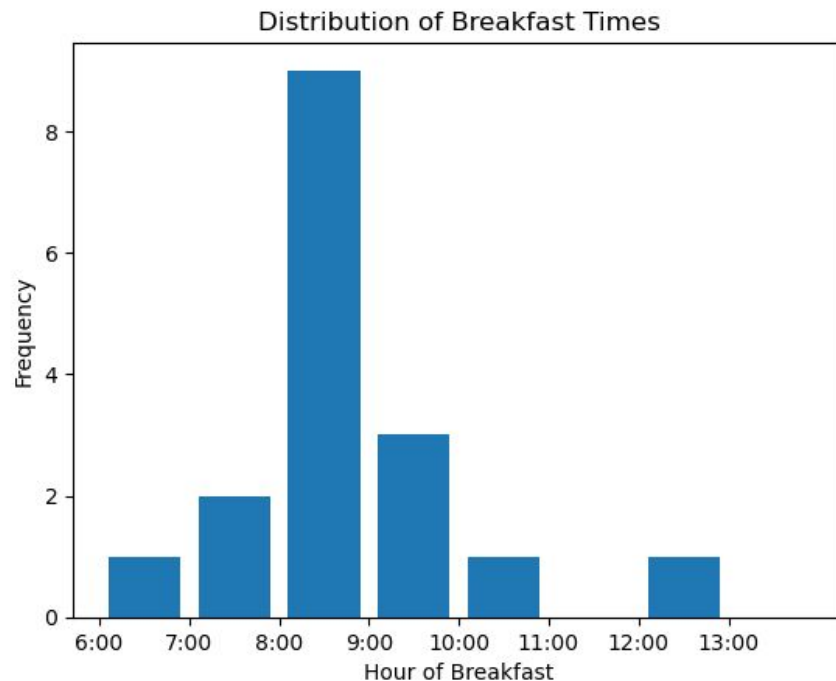
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Do you usually eat breakfast everyday?

Breakfast Eating Habits

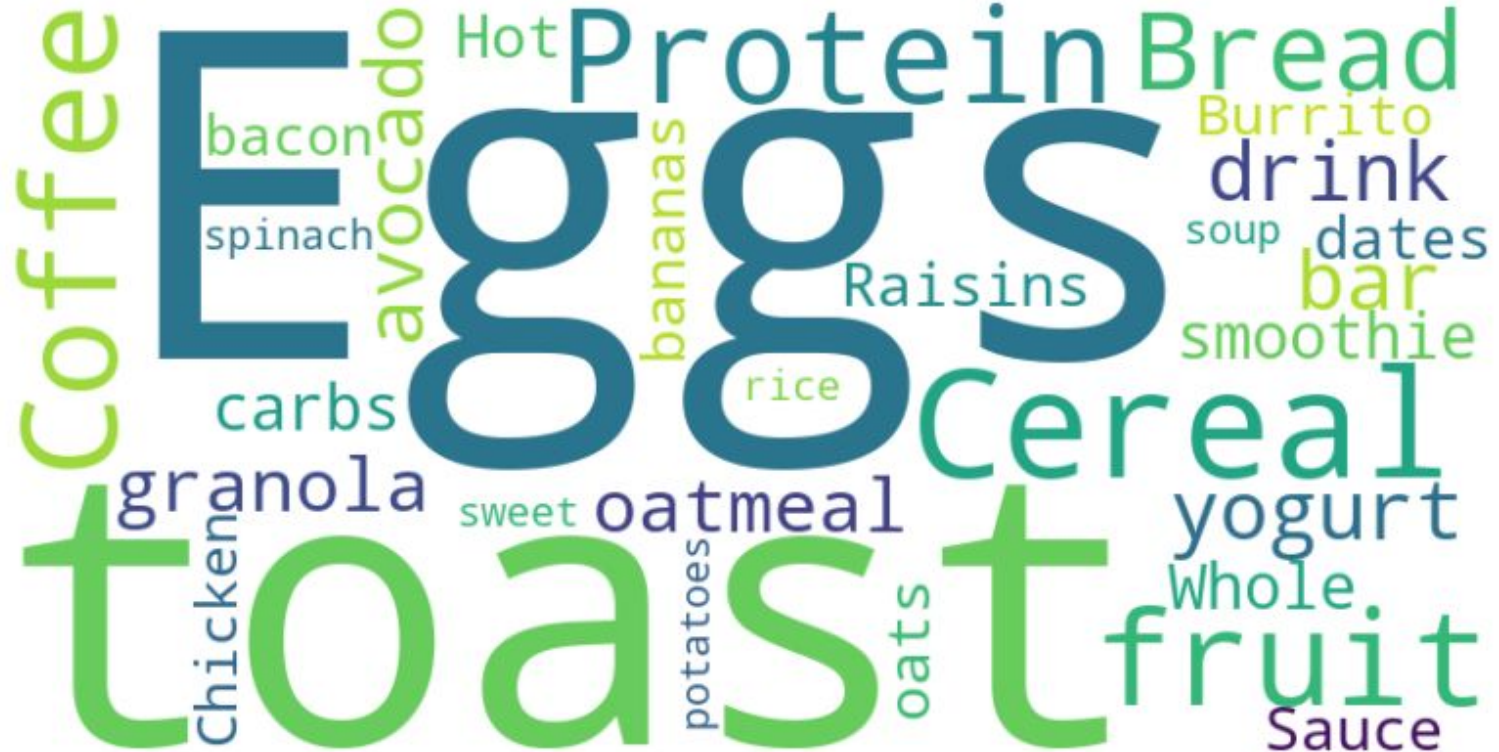


What time do you eat your breakfast?



What do you usually have for breakfast?

Word Cloud of Breakfast Choices



65%

people eat the same breakfast for 5 days in a week!

Drawbacks to EDA

- Needs the right amount of data to be useful
- Can be an endless process if goal is not defined
- Subjectivity



Conclusions

- This information has so much potential!
- Why do people eat these things? Are they the quickest? Are they the cheapest?
- Is there a relationship between what someone has for breakfast and GPA?