Data Visualisation Project (May-2023)

Project Title: FlavorFusion - Uniting Tastes and Tales: A Data Visualization Journey

Description:

FlavorFusion is an exciting data visualization project that aims to uncover the delightful world of college students' food choices and preferences. As students of the Data Visualization course, you will embark on a journey to create captivating visualizations that reveal the intricate relationships between various factors influencing college palates. By blending data and creativity, you will present engaging and insightful visuals that showcase the rich tapestry of students' culinary adventures.

Project Questions:

Here are some EDA topics that you can explore based on the given dataset:

- Breakfast Choices and Caloric Intake

- Caloric Intake during the Day

- Coffee Consumption

- Comfort Food and Reasons

- Cuisine Preferences and Diets

- Exercise and Healthy Habits

- Income and Eating Out

- Relationship between Weight and Food Choices

- Impact of Parental Education and Profession

Deliverables:

Visualizations: Produce interactive and visually captivating data visualizations for each question and integrate these visuals into a cohesive and engaging dashboard/chart.

Presentation: Present your FlavorFusion project to the class, explaining the insights gained from the visualizations.

Code & Documentation: Provide well-structured and documented code for data preprocessing and all visualizations.

Get ready to immerse yourselves in FlavorFusion, where you'll not only master data visualization techniques but also uncover fascinating insights into college students' taste buds and the intriguing factors that influence their food choices! Let the flavors and creativity blend to create visual masterpieces!

Note:

➢ You can use any programming language or tools you believe are suitable for this project and should be prepared to describe and explain your choices.

➢ We encourage the use of data visualization to effectively communicate your findings and hypotheses and create a compelling narrative.

Datasets: https://drive.google.com/file/d/1PdduZZ3aPrGblFxl3JOuNPEf7vehJj_8/view?usp=sharing

Good luck!

Criteria	Points
Approach: Clear and well-reasoned approach to the problem, including appropriate analytical and coding techniques	10
Data analysis & Findings:: Effective use of data analysis techniques to extract interesting observations from data that clearly answer the questions	20
Data visualization: Effective use of data visualizations to communicate findings and tell a compelling story	30
Implications: Clear and insightful implications for the client and their research and development department	10
Constraints and improvements: Clear and well-supported recommendations for improving the project or addressing any constraints or limitations	5
Presentation: Professional and engaging presentation, with effective communication	10
Technical Appendix: Clear, well-documented, and readable code or pseudocode, with appropriate comments and documentation	10
Consistent progress: Meeting or exceeding weekly goals and targets	5

Roadmap for completing the project in Three weeks

Week 1
(Data Understanding and Preprocessing)

- Familiarize yourself with the dataset's columns, structure, and information.
- Identify any missing values, outliers, or inconsistencies in the data.
- Clean and preprocess the data, ensuring it's ready for analysis.

Week 2
(Exploratory Data Analysis and Visualization)

- Develop exploratory data analysis questions for each aspect of the project.
- Choose appropriate visualization techniques for each question without specifying plot types.
- Create initial visualizations based on the topics and data.
- Begin working on designing the interactive dashboard framework/ chart.

Week 3
(Dashboard Completion and Presentation Preparation)

- Refine and enhance the visualizations & Integrate them into an interactive dashboard platform/ form a chart.
- Prepare a presentation showcasing your project, highlighting key insights, and explaining your visualization choices.
- Finalize the technical appendix, ensuring it is clear, concise & well-documented.