

Work and deadlines

DataSet

Your data should include at least 100 data points and four different attributes.

(1) Dataset one:

Kaggle - Average Time Spent By A User On Social Media

Introduction:

- **age:** The age of the user.
- **gender:** The gender identity of the user (Male, Female, Non-binary).
- **demographics:** The type of area the user resides in (Urban, Suburban, Rural).
- **interests:** The user's primary area of interest or hobby.
- **device_type:** The type of device used by the user (Mobile).
- **location:** The country of residence for the user.
- **platform:** The social media platform where the user spends time.
- **profession:** The user's occupation or professional status.
- **income:** The yearly income of the user.
- **indebt:** Indicates whether the user is in debt (True or False).
- **homeowner:** Indicates whether the user owns a home (True or False).
- **owns_cars:** Indicates whether the user owns cars (True or False).

(2) DataSet two:

Open-ended question

(1) DataSet one:

How do social media usage patterns vary across different demographics, and what insights can be derived about the impact of these patterns on users' lifestyle choices and social interactions

- The correlation between age groups and preferred social media platforms.
- Differences in usage intensity between urban, suburban, and rural areas.
- How gender and profession influence the choice of platforms and engagement levels.
- The role of income and indebtedness in determining device types and usage frequency.
- Interests and how they correlate with specific platforms and user engagement.

Views (1-3 beneficial, 4. advanced):

1. **Bar Chart - Comparison of platform usage:**

- ****View description:**** Shows how often different social media platforms are used by age group, gender, occupation or region category.
- ****Interactivity:**** Allows users to select different demographic characteristics (e.g. age, gender) to view usage of different social platforms among specific groups. Specific numbers can be displayed by hovering, and clicking on a bar can drill down to see the detailed usage of the platform in different regions or other dimensions.

2. **Map - the relationship between geographical location and social media usage:**

- ****View description:**** Based on the user's region, display the usage heat map of different social platforms.
- ****Interactivity:**** Users can explore social media usage in different regions by zooming and panning. Clicking on a specific region reveals detailed social media usage statistics for that region, including the most popular platforms and the average time spent by users.

3. Line Chart - time trend analysis :

- ****View description:**** Shows changes in user activity on different social media platforms within a specific period of time.
- ****Interactivity:**** Users can select different time ranges (such as months, years) to view data trends. Hover over the data point to display specific values, and click to view detailed analysis at that point in time, such as active user distribution, frequency of use, etc.

4. Advanced interactivity view - user behavior segmentation analysis :

- ****View description: ****A composite view that integrates Scatter Plot, Parallel Coordinates and Tree Map to display the user's specific behavior patterns, such as usage duration, active time period, and points of interest. wait.
- ****Interactivity:**** Allows users to filter data by selecting different dimensions (such as income level, whether they own a car), displaying the social media usage patterns of eligible user groups. Users can interact with the views, such as selecting specific points of interest to view user behavior data related to them, or filtering out specific user groups through parallel coordinate plots and viewing details in other views.

(2) DataSet two:

Task Lists:

Task and Details	Timeline for completion	Person Responsible	Date and time completed	Notes
View one				
View two				
View three				
Advanced interactive features				
Report				
EXTENSIONS (VIDEO)				
E EXTENSIONS (NOTES ON DATA & POTENTIAL DATA SOURCES)				
Sketches				
PERSONAL STATEMENT		Individual		

Supplementary notes of struggling problems & Solutions

Reference

List reference and related code' index here for check and comment.