

CS 5617 - Data Science

Assignment - Data analytic infographic poster

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This is an individual assignment!
Due Date: 15th March 2024 by 11.59 PM

Instructions

- This assignment aims to explore various data analytic techniques to find hidden information and obtain data-driven conclusions to local problems through data science.
- Data sets can be obtained from data.gov.lk.
- You have to work on data cleaning and data preprocessing before the analysis. (If you face any limitations and made assumptions, please mention them in the second page of PDF).
- Accommodate the 4-step data analysis process for this assignment to generate an infographic poster that showcases multiple findings and conclusions derived for your chosen dataset for a local problem.
 1. Descriptive analysis
 2. Diagnostic analysis
 3. Predictive analysis
 4. Prescriptive analysis
- Utilize most appropriate data visualization techniques to showcase your findings in the right way.

Evaluation

- You need to submit a 2-page PDF file; first page is the infographic poster, and the second page is the description of tools and techniques used, disclaimers, challenges in the data set (if any), methodologies, and further details.
- The poster will be evaluated based on your data analysis skills, visualization techniques, the value of the conclusions derived, the content within one page, and other related rubrics.
- In addition, provide us with the link to your code (python notebook or your corresponding GitHub repository) on the second page of the PDF file.

Sample poster

A sample infographic poster is provided for reference. Please note that this is only a sample of how different visualization techniques and information presents information from a different perspective through engaging visual elements like icons, graphs, and charts. You must produce an infographic poster specific to your selected problem.

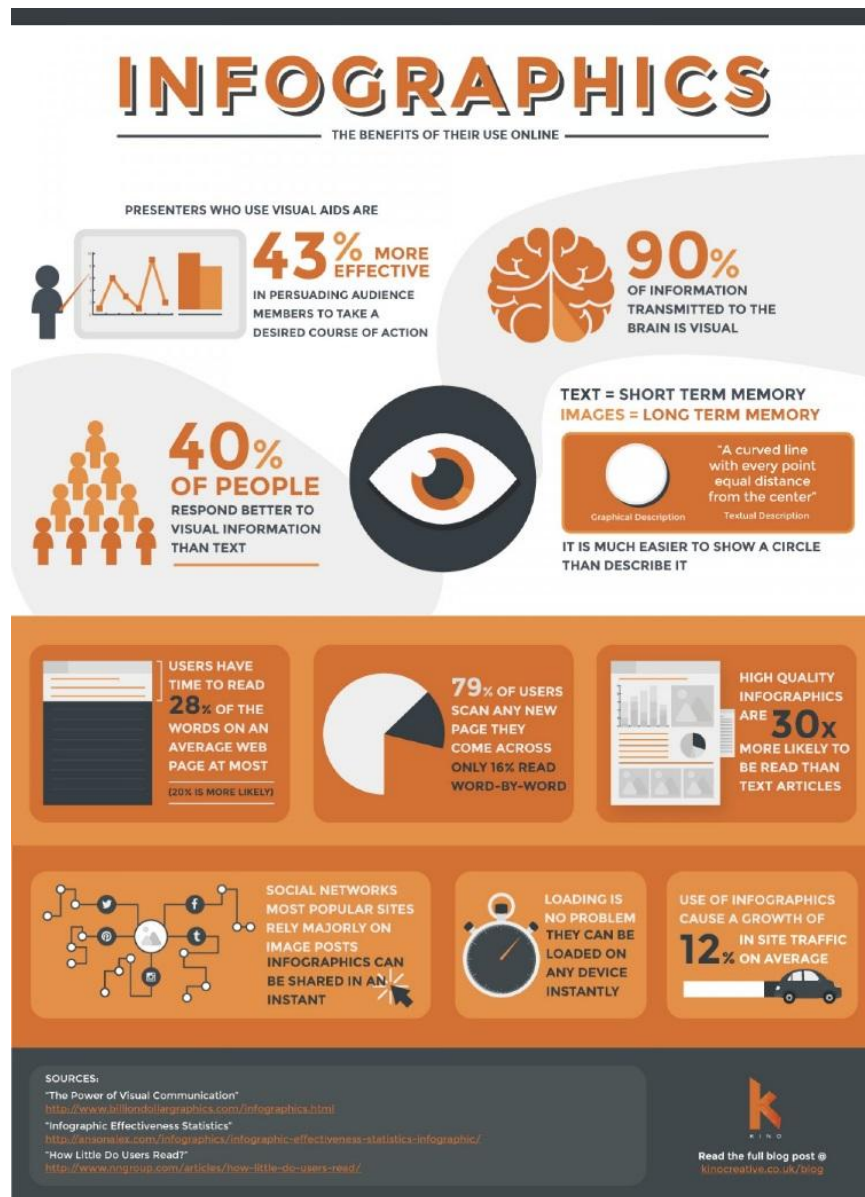


Figure 1: Sample Infographic Poster