PATH TO PROSPERITY
A Comprehensive Analysis of Financial Independence based on data taken from reddit.

Financial independence is the status of having enough income or wealth sufficient to pay one's living expenses for the rest of one's life without having to be employed or dependent on others. Income earned without having to work a job is commonly known ~~suffered~~ referred to as passive income. Others define financial independence differently according to their own goals.

Reddit is an American social news aggregation, content rating and discussion website. Registered users (commonly reffered to as "Redditors") submit content to the site such as links, text, posts, images, and videos, which are then voted up or down by other members.

Financial independence, Retire Early (FIRE) is a movement of people devoted to a program of extreme savings and investment that aims to allow them to retire far earlier than traditional budgets and retirement plans would permit.

7. Average gross annual wage income by country

8. Loan debt by relationship status

9. Financial independence by average age and relationship status.

10. Gross household other income by future planning of children

11. Total credit card bedebt by living envi-ronment

12. Average age when a person becomes financially literate

MILESTONE 10 : Project demonstration and Documentation.

Activity 1 : Record explanation video for project end to end solution

Activity 2 : Project Demonstration Step-by-step project development procedure.

6. Data Analysis — Analyze the integrated data using statistical methods, machine learning algorithms or other analytical techniques.

7. Visualization and Reporting —
   Visualize the analysis results using charts graphs, and dashboards to make them more understandable and actionable.

8. Monitoring and Maintenance :-
   Continuously monitor the web integration process to ensure data accuracy and reliability. Update integration methods and data processing pipelines as needed to adapt to changes in web sources or business requirements.

   By following these steps, organizations can effectively integrate web data into their analytics workflows to make data-driven decisions and gain competitive advantages.

MILESTONE 9 : Web Integration

Web integration for data analytics involves connecting and collection of data from various web sources to analyze and derive insights. The following are the steps:

1. Identify data Sources –
Determine which websight or web-based platforms contain the data you need for analysis

2. Choose Integration method –
Decide on the best approach to acess and extract data from these sources. This could involve using API's, web scraping tools or integration platforms.

3. Access Data –
Implement the choosen method to retriene data from the websources. This may involve writing scripts, configuring API requests, or using integration platforms like webgration.

4. Data cleaning and Preprocessing –
cleanse and preprocess the collected data to ensure its quality and consistency.

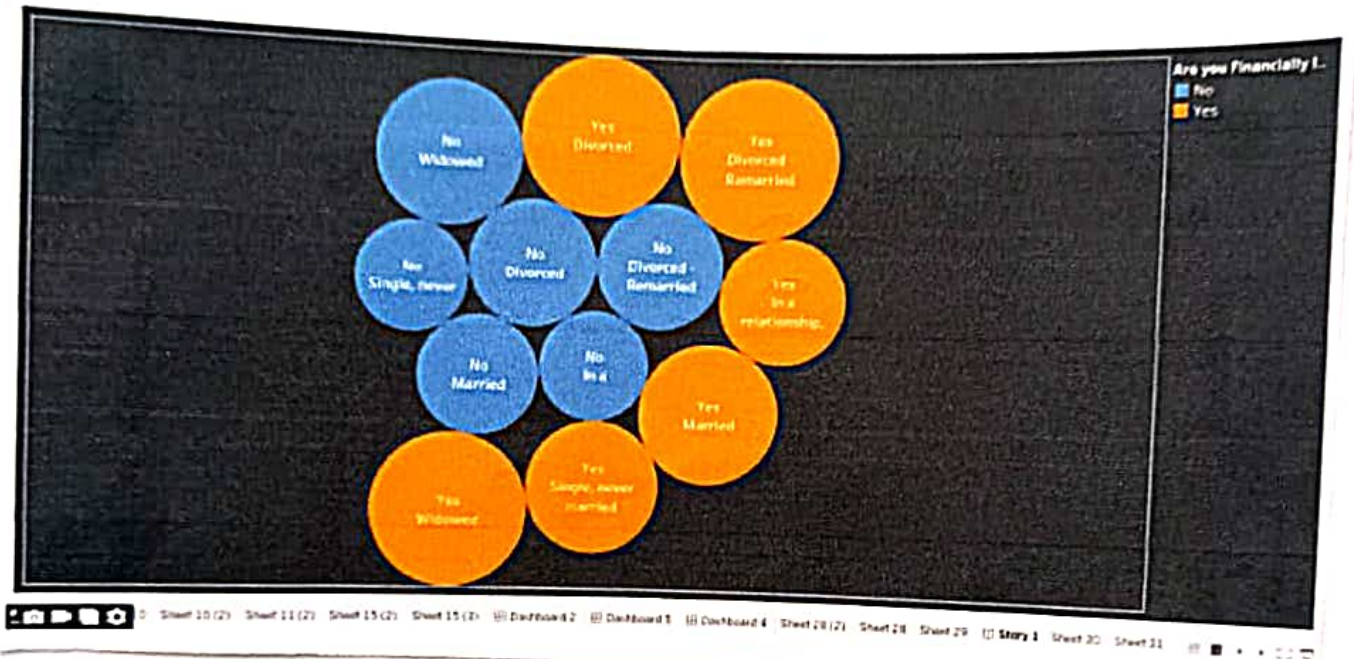5. Data Storage – Store the processed data in a suitable storage solution such as a database or data warehouse

Activity 2 : No. of calculation Fields.

Activity 3 : No. of Visualizations / Graphs.
1. Financial Independence by average Age and gender
2. Averag Gross annual wage by occupation
3. Financial independence by housing situation and load debt.
4. Average gross annual income by gender.
5. Average gross annual rental property by living environment.
6. Average gross annual side gig income by occupation.
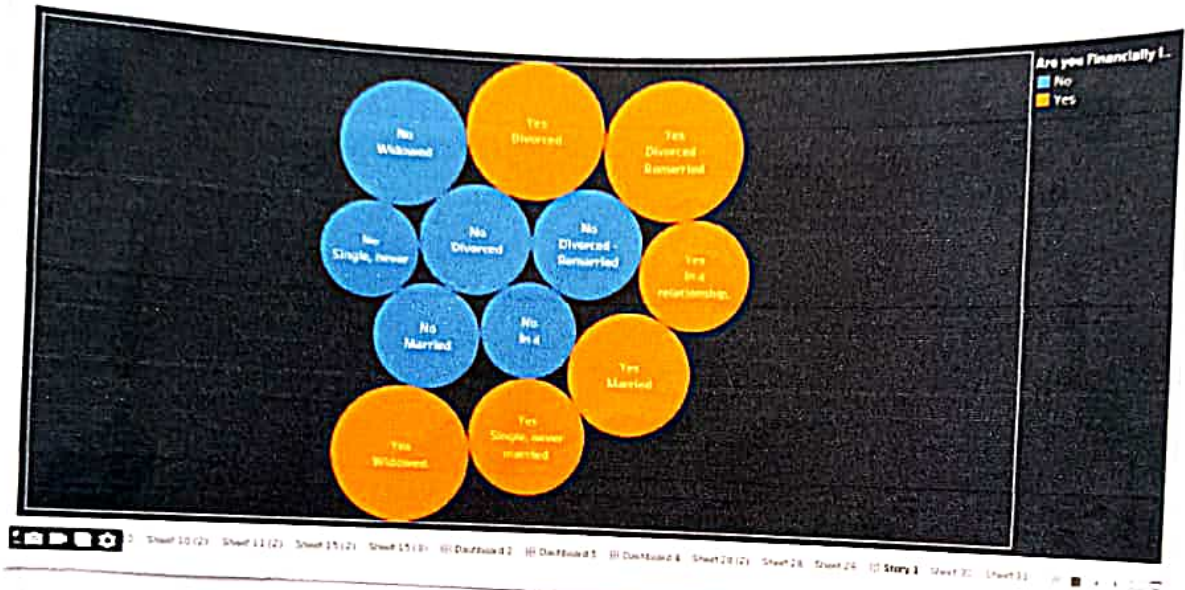
MILESTONE 8 : Performance testing
Activity — Utilization of data filters

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MILESTONE 7 : REPORT

A report is a document that presents information in a specific format and layout, usually based on data from a database or other data source. A report in IBM cognos can contain various elements such as tables charts, graphs and images as well as text and data elements. and it is designed to be used by business users to help them better understand their data and make informed decisions. There are several different types of reports available in IBM cognos, including listreports, crosstab reports, chart reports, and report studio reports. among others. The type of report that you choose will depend on the specific needs and requirements of your organisation as well as the data that you need to present.
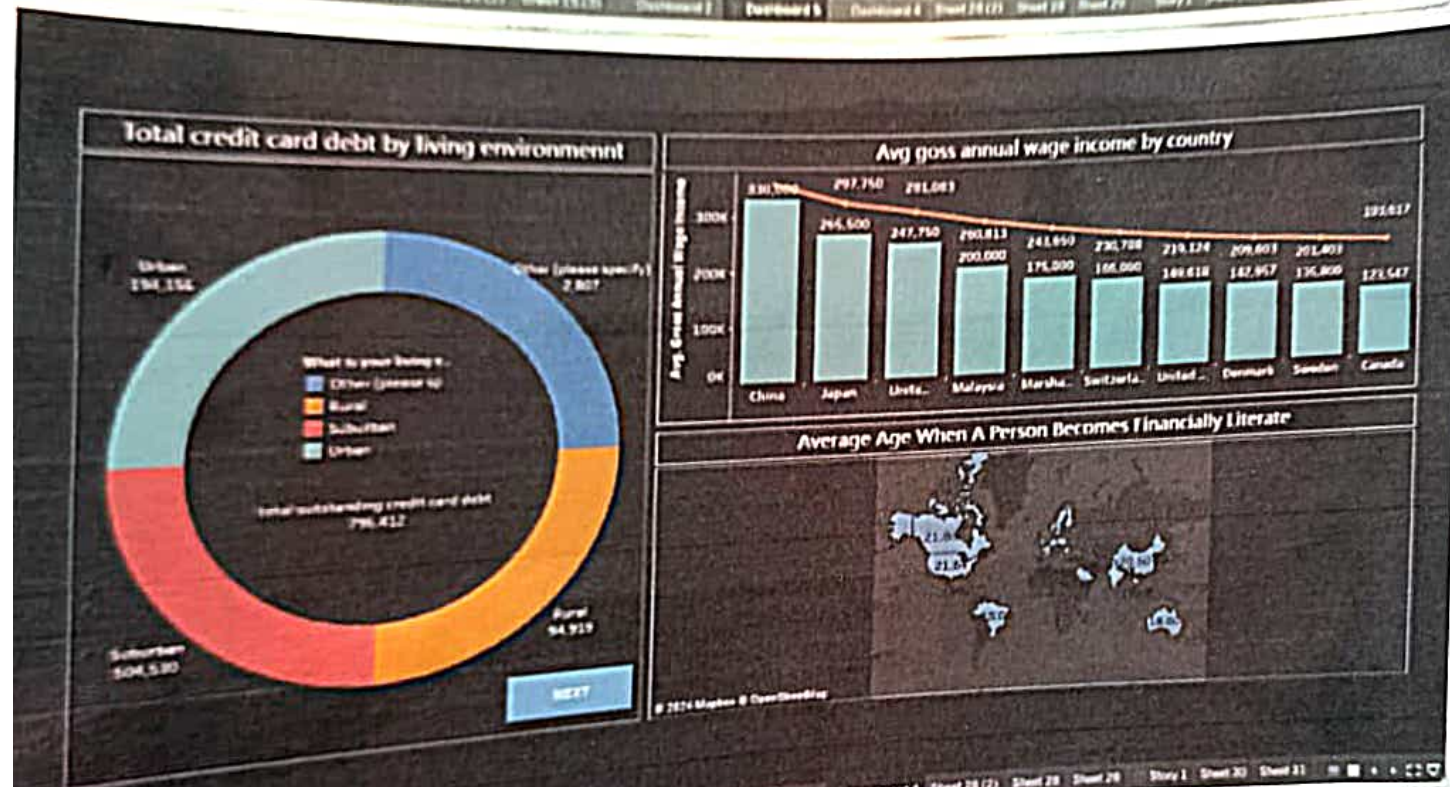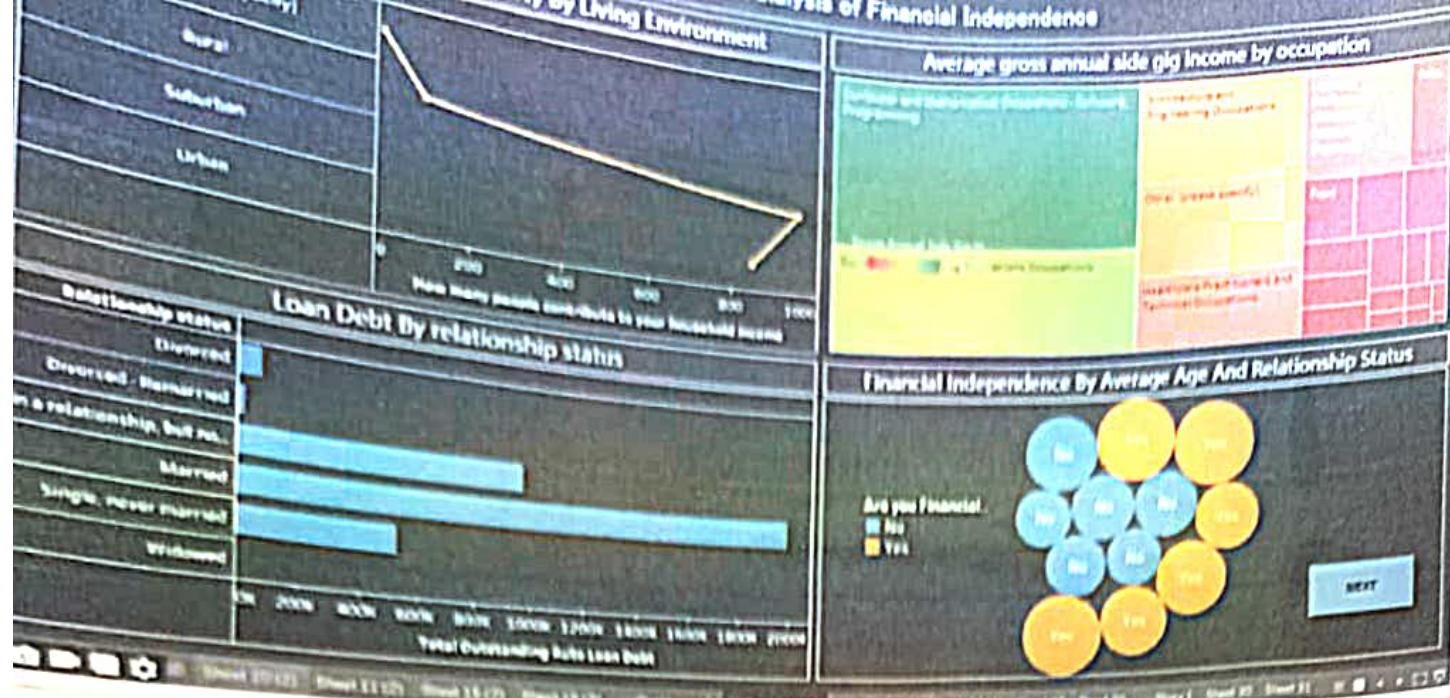
Activity 1: Creating a report

A data story is a way of presenting data in analysing in a narrative format, with the goal of making the information more engaging and easier to understand. A data story typically includes a clear introduction that sets the stage and explains the context for the data, a body that presents the data and analysis in a logical and systematic way, and a conclusion that summarizes the key findings and highlight their implications. Data stories can be told using a variety of mediums, such as reports, presentations, interactive visualizations and videos.

Activity -1 : No. of Scenes of Story

The no. of scenes in a story board for a data visualization analysis of the factors affecting the financial independence, will depend on the complexity of the analysis and the specific insights that are trying to be conveyed. A story board is a visual representation of the data analysis process and it breaks down the analysis into a series of steps or scenes.
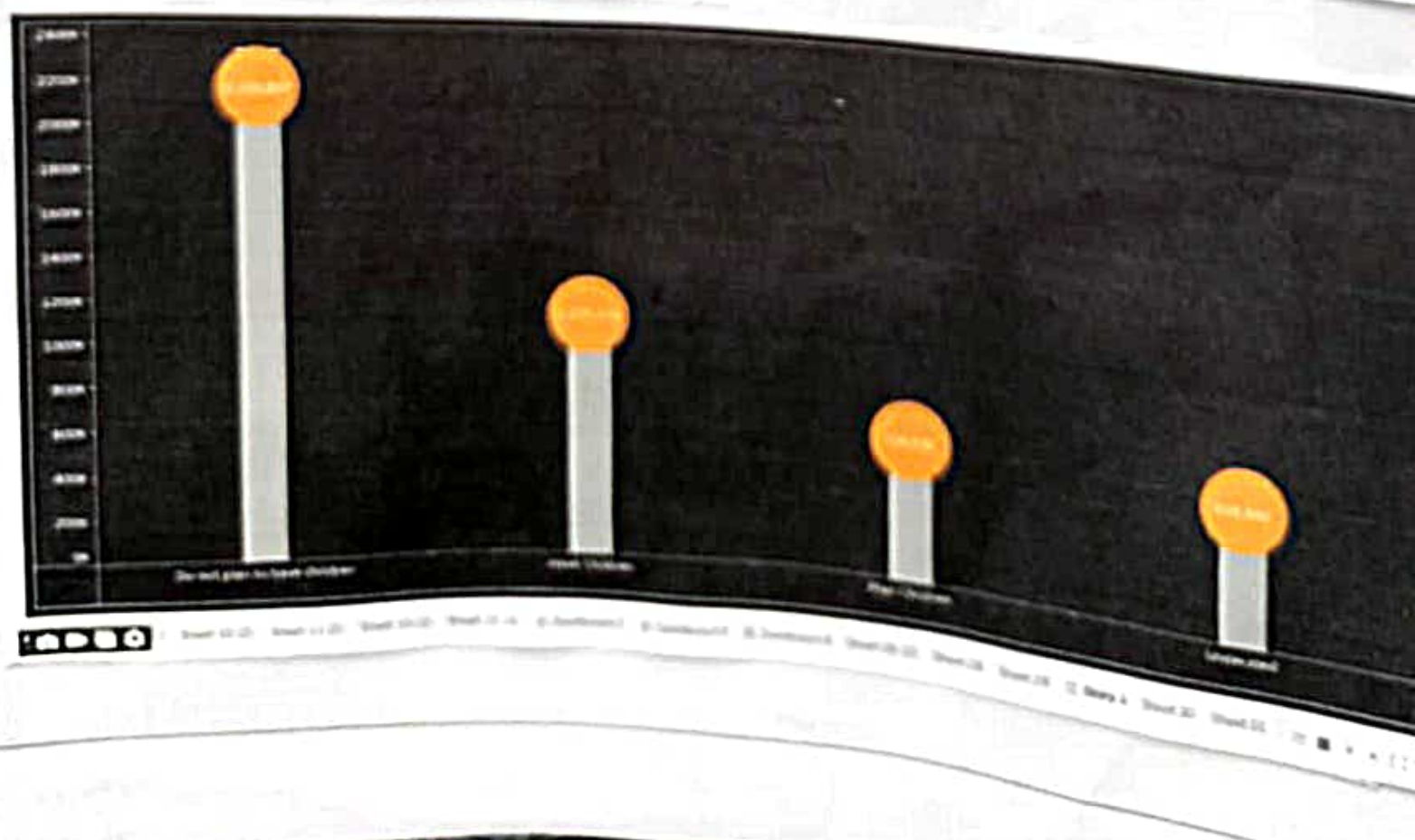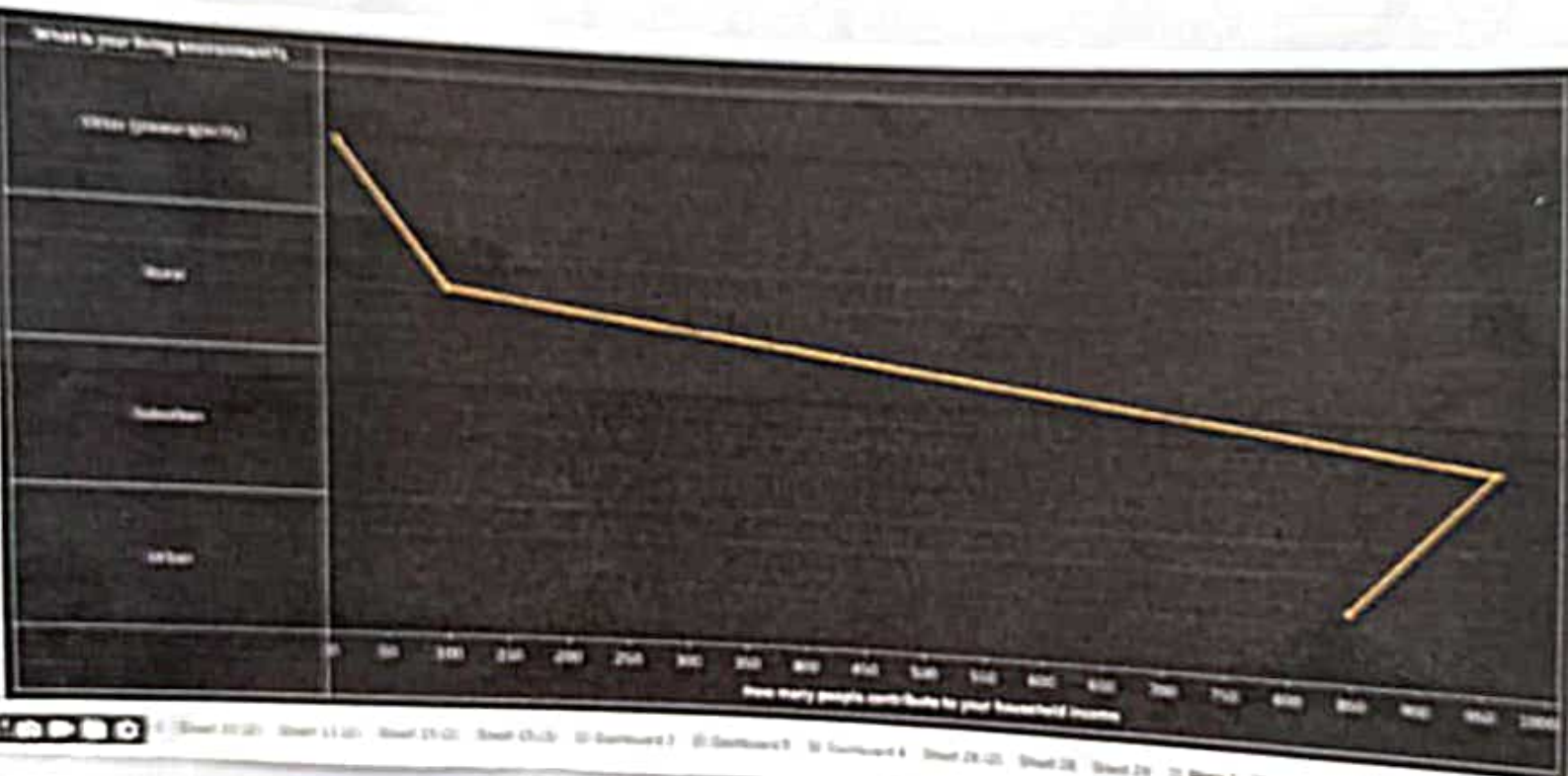
by Living Environment

Average gross annual side gig income by occupation

Loan Debt By relationship status

Relationship status
- Divorced
- Divorced - Remarried
- In a relationship, but not...
- Married
- Single, never married
- Widowed

Total Outstanding Auto Loan Debt

Financial Independence By Average Age And Relationship Status

Are you Financial.
- No
- Yes

NEXT

Total credit card debt by living environment

Urban
194,552

Other (please specify)
2,807

What is your living e...
- Other (please s)
- Rural
- Suburban
- Urban

Total outstanding credit card debt
796,412

Rural
94,919

Suburban
504,530

NEXT

Avg goss annual wage income by country

Avg Gross Annual Wage Income

330,700   297,750   291,083

245,500   247,750   280,813   241,650   230,708   219,124   209,603   201,603   195,617

200,000   175,000   166,000   168,618   142,957   135,806   171,547

China | Japan | Unite.. | Malaysia | Marsha.. | Switzerla.. | United.. | Denmark | Sweden | Canada

Average Age When A Person Becomes Financially Literate

21.8
21.6

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Financial Independence By Average Age And Gender

Are you Financially independent? / Gender

No | Yes

52.70   61.27

26.41   28.81   27.33

Female | Male | Other (please specify) | Female | Male

Financial independence by housing situation and load debt

Are you Financially independent? / Housing Situation

Housing Situation
- Rent
- Own
- Other (please...
- Live with fami...
- Homeless

Avg gross annual wage income by gender

Gender
- Female
- Male
- Other...

Female | Male | Other (please specify)

Gross household other income by future planning of children

Do not plan to have children | Have Children | Plan Children | Undecided

A dashboard is a graphical user interface (GUI) that displays information and data in an organized, easy-to-read format. Dashboards are often used to provide real time monitoring and analysis of data, and are typically designed for a specific purpose or use case. Dashboards can be used in variety of settings such as business, finance, manufacturing, healthcare and many other industries.

Activity :1 - Responsive and design of Dashboard

The responsiveness and design of a dashboard for anything analysing the factors important for financial independence is crucial to ensure that the infor-mation is easily understandable and access actionable. The goal is to creat a dashboard that is user-friendly interactive and data driven, providing actionable insights.

Once you have created different sheets on IBM cognos, you can pin them and pull them into a dashboard.

MILESTONE 4 : Data visualizations

Data visualization is the process of creating graphical representations of data in order to help people understand and explore the information. The goal of data visualization is to make complex data sets more accessible, intuitive, and easier to interpret. By using visual elements such as charts, graphs and maps, data visualizations can help people quickly indentify patterns, trends, and outliners in the data.

Activity 1 : No. of unique visualizations

The no. of unique visualizations that can be created with a given dataset. Some common types of visualizations that can be used to analyze the Reddit financial Independence data include bar charts, line charts heat maps, scatter plots, etc. These visualizations are used to compare relation between variables.

MILESTONE 3 : Data Preparation

Activity 1 : Prepare the Data viatizations

Preparing the data for visualization involves cleaning the data to remove irrelevant or missing data, transforming the data into a format that can be easily visualized, exploring the data to identify patterns and trends, filtering the data to focus on specific data subsets of data.

DATA MODULE

MILESTONE 2 : Data Collection and Extraction from Database

Data collection is the process of gathering and measuring information on variables of interest, in an established systemic fashion that enables one to answer stated research questions, test hypothesis and evaluate outcomes and generate insights from the data.

Activity 1 : Collection of dataset

Activity 1.1 : Understand the data

Activity 2 : Connect IBM DB2 with IBM cognos.

MILESTONE 1 : Define Problem / Problem understanding

Activity 1 – Specify the business problem

Activity 2 – Business requirements

The business requirements for this project would likely include
- Data collection
- Data cleaning and preparation
- Data analysis
- Report creation

Activity 3 – Literature survey

A literature survey would involve a review of existing research and studied related to financial independence and personal finance. the literature servey would provide a comprehensive overview of the current state of knowledge in the field of financial independence and personal finance, and would provide a foundation for the analysis and report creation aspects of the projects.

Activity 4 – Social or business impact

Social impact :- The findings from this project could help people in better planning in their finances and other assets.

Business model/Impact :- A high level of financial independence for people indicate, healthy economic conditions for the country.

* Web integration
   → Dashboard and ~~stooy~~ story embed with UI with flask

* Project Demonstration and Documentation
   → Record explanation video for project end to end solution
   → Project Documentation → Step-by-step project development procedure.

Project Flow

To accomplish this, we have to complete all the activities listed below.

* Define Problem / Problem understanding
  - → Specify the business problem
  - → Business requirement
  - → Literature survey
  - → Social of or business Impact

* Data collection and extraction from Database
  - → Collect the database
  - → Connect IBM DB2 with IBM Cognos

* Data preparation
  - → Prepare the data for visualization

* Data visualization
  - → No of unique visualizations

* Dashboard
  - → Responsive and design of dashboard

* Story → No. of Scenes of story

* Report → Creating a report

* Performance Testing
  - → Amount of data Rendered to DB.
  - → Ultization of data filters.
  - → No. of Calculation fields
  - → No. of visualizations / Graphs.