THE PATH TO PROSPERITY : A COMPREHENSIVE ANACYSIS OF FINANCIAL INDEPENDENCE BASED ON THE DATA TAKEN FROM REDDIT

The financial Independence can be achieved by Creating a detailed budget to track your income and expenses. Analyse your debts and liabilities such as credit cards, loans, and mortgages. Take stock of your choice, including investments, savings accounts, and retirement funds.

→ Grow your Business.

→ Pursue Wealth.

→ Achieve what 1% of the world's population has.

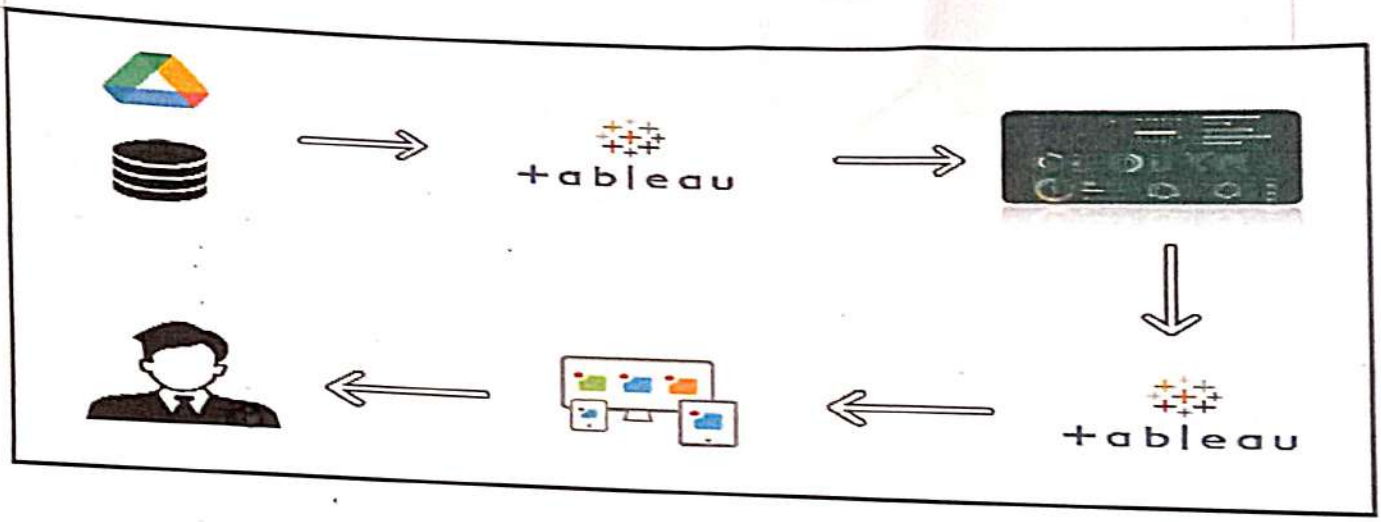
• The biggest risk is not taking any risk.

→ An American social news aggregation, content rating, and discussion website, Registred user (commonly reffered to as "Redditors").

The technical Architecture:

The Technical Architecture is where we can work through cloud technology such as drive (Google) and any other third party cloud technologies and then we send that data to tableau by using that data in tableau we creati data

visualizations then we create web integrations and develope the documentation.



Project flow:-

1. Data Collection & Extraction from database
   - Collect the dataset
   - Connect data with tableau
2. Data Preparation
   - Prepare the data for Visualization
3. Data Visualization (In tableau)
   - Financial Independence by Average age and Gender.
   - Average gross annual wage income by Gender
   - financial Independence by Housing situation & loan debts.

- Average gross annual wage income by Ethnicity.
- Average gross Annual wage income by Occupation
- Relationship status & Average age by Financial Independence.
- Average gross Annual wage income by Living environment.

4. Dashboard.

- Dashboard 1 → Average gross by income of gender
  Average gross Annual wage income by occupation

  The floating navigation icon in NEXT to dashboard 2

- Dashboard 2 → financial independence by Average age and gender.

  Average gross Annual wage income by Living environment

  financial independence by average age and Relationship status

  The floating navigation icon in NEXT to dashboard 3

- Dashboard 3 → financial Independence by

Housing Situation & loadebts

Average age when a Person learns about FIRE

The floating navigation icon in PREVIOUS to dashboard 1.

5. Story → The story in tableau which we created contains all of our data visualization and the explanation of that particular data visualization individually. There are 8 no of visualization and their explanation individually in the story.

6. Performance testing.

- Amount of data loaded is 245 KB by compressing the original data.
- Utilization of data filters is according to the visualization we created.
- There are 13 calculation feilds we used.
- There are 15 data visualizations we created.

7. Web integration.

→ Dashboard and story was embed with link URL with flask.

8. Project demonstration & Documentation.

- Me and my team Recorded an explana

tion wedio for project end to end solutions.

- Project documatation is uploaded in the Github team project acound by scanning the written document into soft copy pdf.

Milesbon 1: Data Collection & Extraction from Data base :-

Data collection is the process of gathering and measuring information on variables of interest, in an established systematic fashion that enables research questions, test hypothesis and evaluati outcomes and generati insights from the data.

Activity 1: Collect the dataset

We have to collect and download the data set by using link in the Smartinternz work shop where the process of the project is mentioned.

Activity 1.1 : Understand the data.

Data contains all the meta information regarding the columns described in the CSV files.

Column description of the Dataset :-

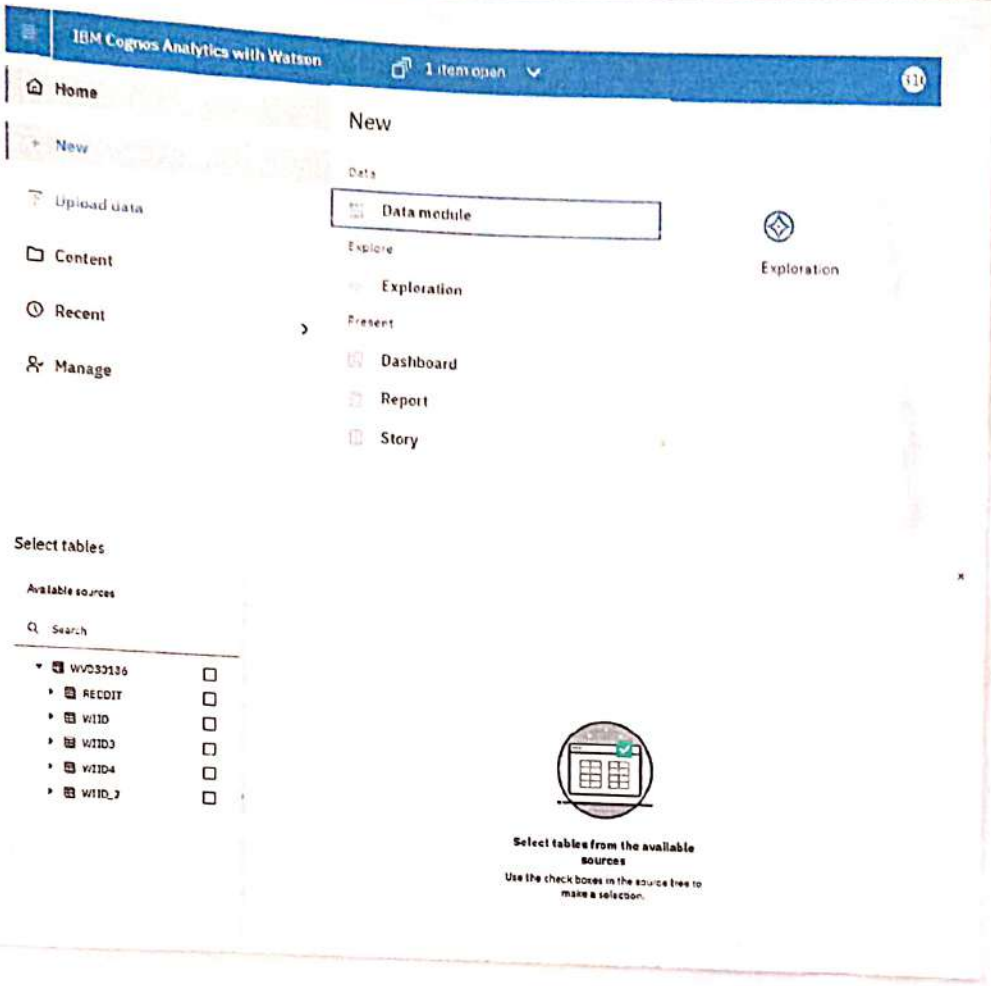
- Data : timestamp or time/data information
- Countries: financial status independence in each country of data.

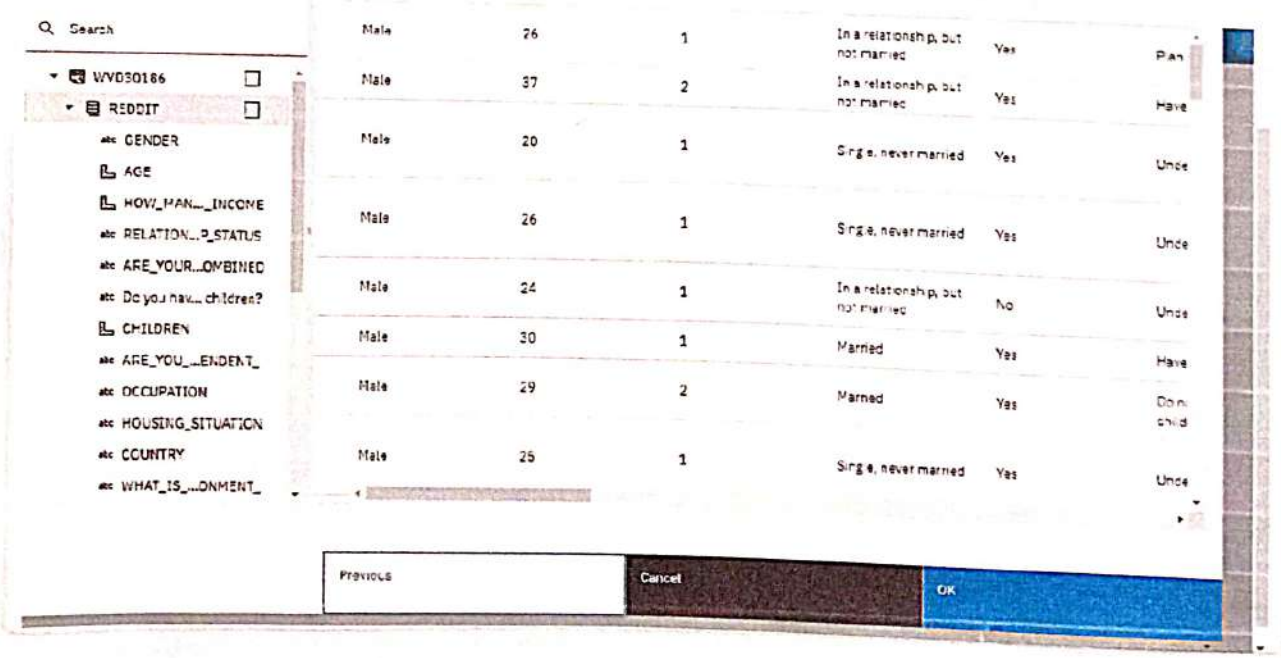
- Gender: The financial independence of the particular gender is mentioned.
- Housing Situation: The housing situation of a person such as
  (a) Homeless
  (b) Live with family
  (c) Own
  (d) Rent
  (e) Others.
- Occupation: The job or the work of that particular person is doing is mentioned.
- Relationship status: The Relationship status is mentioned for the population such as (a) married
  (b) devorced
  (c) In a relationship
  (d) Single
  (e) Widowed etc.

Milestone 2: Data Preparation:

Activity 1: Preparation the Data for Visualization

Preparing the data for visualization involves cleaning the data to remove irrelevant or missing data, transforming the data into a format at that can be easily visualized, exploring the data to identify patterns and trends, filtering the data to focus on specific subsets of data, preparing the data for visualization software, and ensuring the data is accurate and complete. This process helps to make the data easily understanable and ready for creating visualizations to gain insights into the performance and efficency


IBM Cognos Analytics with Watson
1 item open
Home
New
Upload data
Content
Recent
Manage
New
Data
Data module
Explore
Exploration
Present
Dashboard
Report
Story
Exploration
Select tables
Available sources
Search
WVD30186
REDDIT
WIID
WIID3
WIID4
WIID_2
Select tables from the available sources
Use the check boxes in the source tree to make a selection.


Search
WVD30186
REDDIT
GENDER
AGE
HOW_MAN..._INCOME
RELATION...P_STATUS
ARE_YOUR...OMBINED
Do you hav... children?
CHILDREN
ARE_YOU_...ENDENT_
OCCUPATION
HOUSING_SITUATION
COUNTRY
WHAT_IS_...ONMENT_
Male 26 1 In a relationship, but not married Yes Plan
Male 37 2 In a relationship, but not married Yes Have
Male 20 1 Single, never married Yes Unde
Male 26 1 Single, never married Yes Unde
Male 24 1 In a relationship, but not married No Unde
Male 30 1 Married Yes Have
Male 29 2 Married Yes Don child
Male 25 1 Single, never married Yes Unde
Previous
Cancel
OK

Milestone 3: Data Visualizations

Data visualization is the process of creating graphical representations of data in order to help people to 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 visulizations can help people quickly identify patterns, trends and outliers in the data.

Activity 1: The Data Visualizations of my project.

The unique no of data visualizations that can be created with given dataset. Some common types of visualizations that can be used to analyse the Reddit financial independence data include bar charts, the charts, heat maps, scatter plots, pie charts maps etc. These visualizations can be used to compare performance, track changes over time, show distribution and relationship between variables.

Milestone 4: Dashboard

A dashboard is a graphical user interface (GUI) that displays information and data in the can organized, easy-to-read format. Dashboard are often used to provide real-time monitoring and analysis of data, and are typically assignment for a specific purpose or use case. Dashboard can be used in a variety of settings, such as business finance, manufacturing, healthcare and many other industries. They can be used to track key performance indicators (KPIS), monitor performance metrics and display data in the form of charts, graphs and tables.

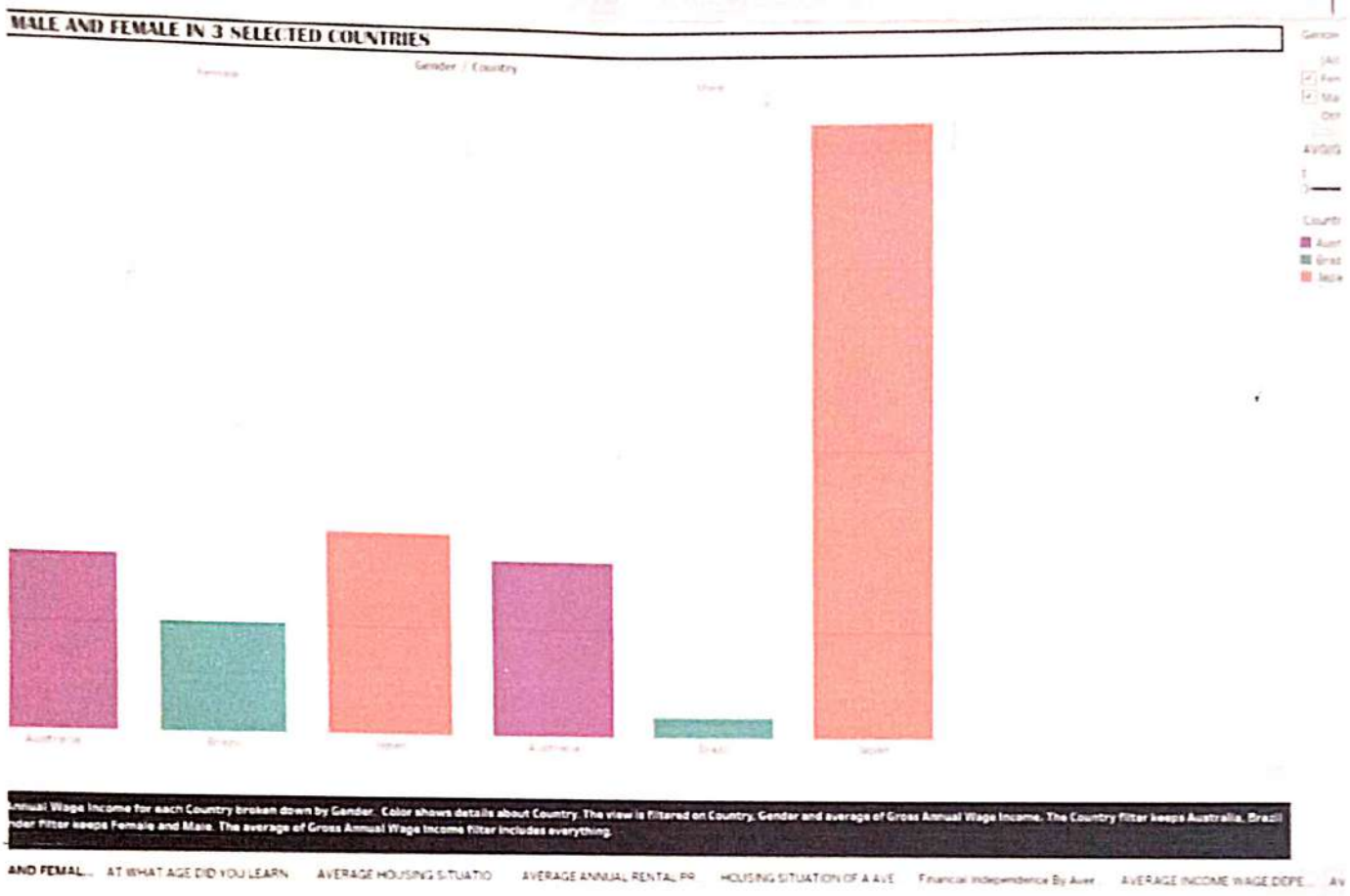
Activity 1: Responsive and Design of Dashboard

The Responsiveness and design of a dashboard for analysing the factors important for financial independence is crucial to ensure that the information is easily understandable and actionable. Key consideration for designing a responsive and effective dashboard

including user-centered design, clear and consie information, interactivity, data-driven approch, accessibility customization and Security.

⟹ A Tableau dashboard for financial independence allows you to visually track income, expenses, savings rate, investments performance, and net worth over time, providing a comprehensive overview of your financial health. By incorporating goal tracking and budgeting features, the dashboard helps you stay focused on achieving key milestons and making informed financial decisions to progress towards independence. With customariable visualizations and real-time data updates, Tableau empowers you to effectively manage your finance and take control of your path to financial freedom.

Activity - 1.1 :-



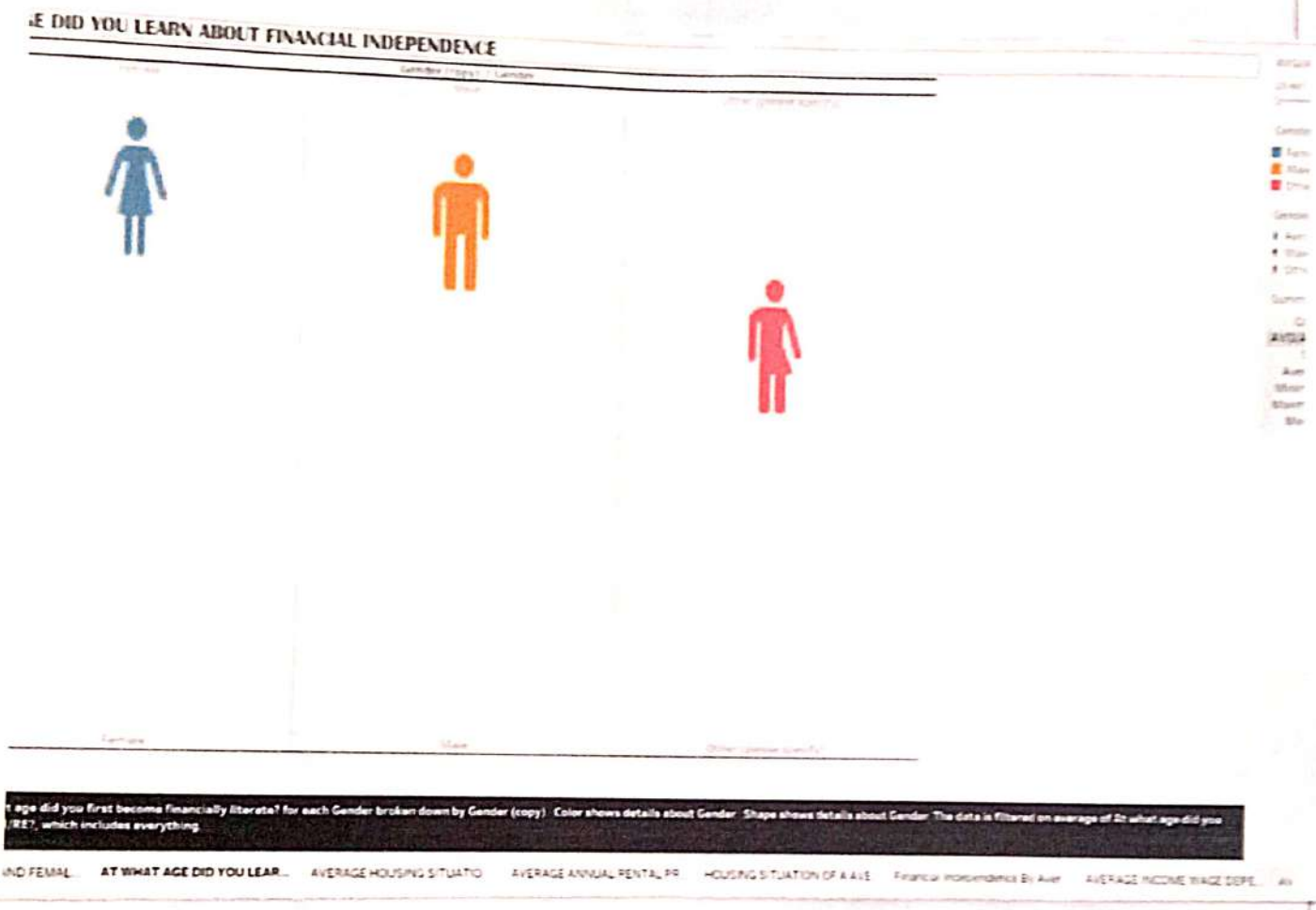
Income of male and female in 3 different selected countries.

→ Average of gross annual wage income for each country broken down by gender.

→ color shows detail about each country.

→ The view is filtered on Country, Gender and average of gross annual wage income.

Activity 1.2:



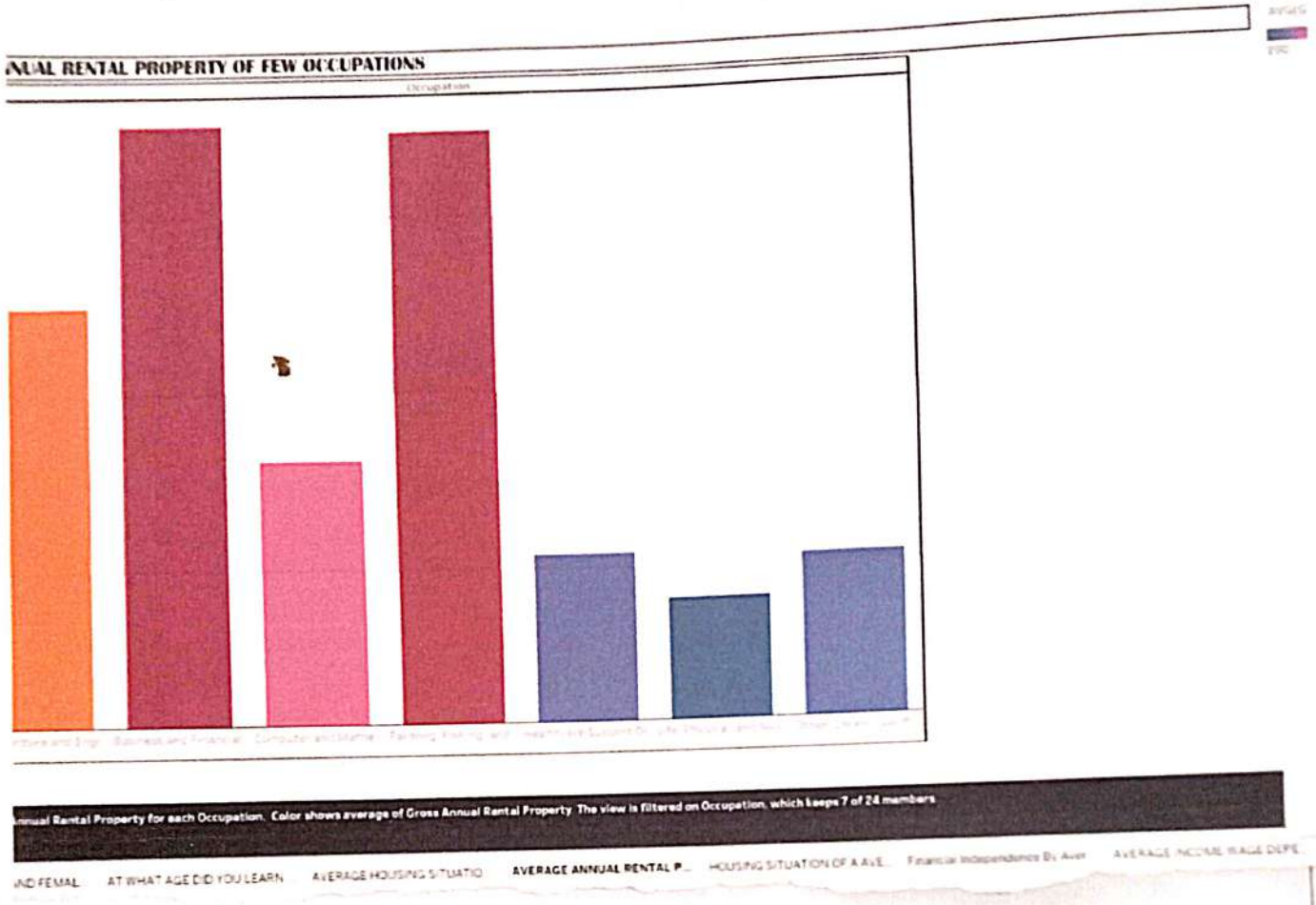
At what age did Learn about financial Independence

→ Average of at what age did you first became literate about financial freedom?.

→ for each gender broken down by gender copy. Color shows details about genders.

→ Shape shows details about gender.

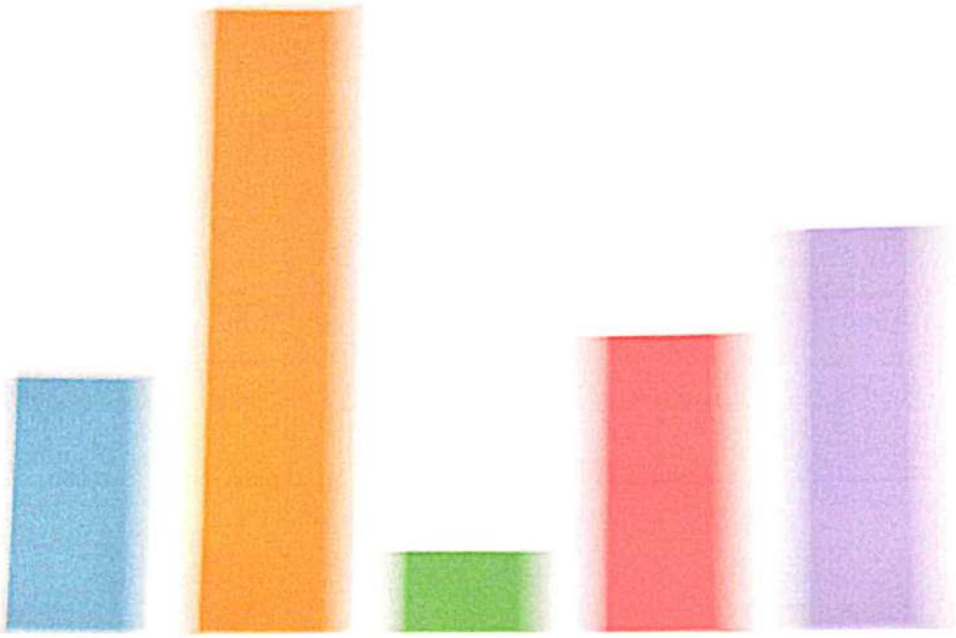
Activity - 14:



Annual Rental property of few occupations

→ The Average gross of annual Rental property for each occupation. Color shows average of Gross annual Rental porperty.

→ The view is filtered on occupation, which keeps 7 of 24 members (or) Countries.



Housing

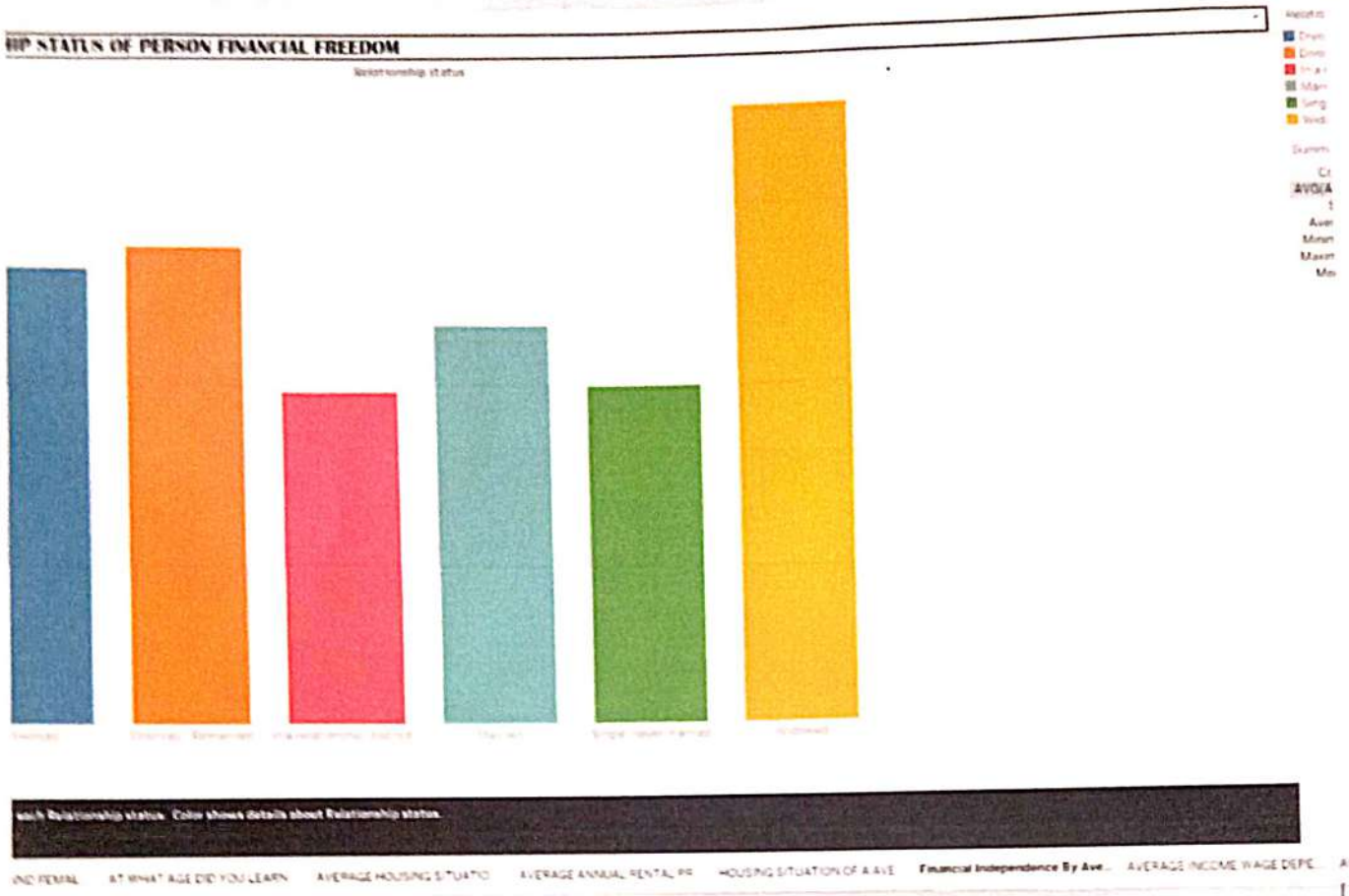
→ Average

for each housing

→ color shows

of a family

Activity - 1.6:-

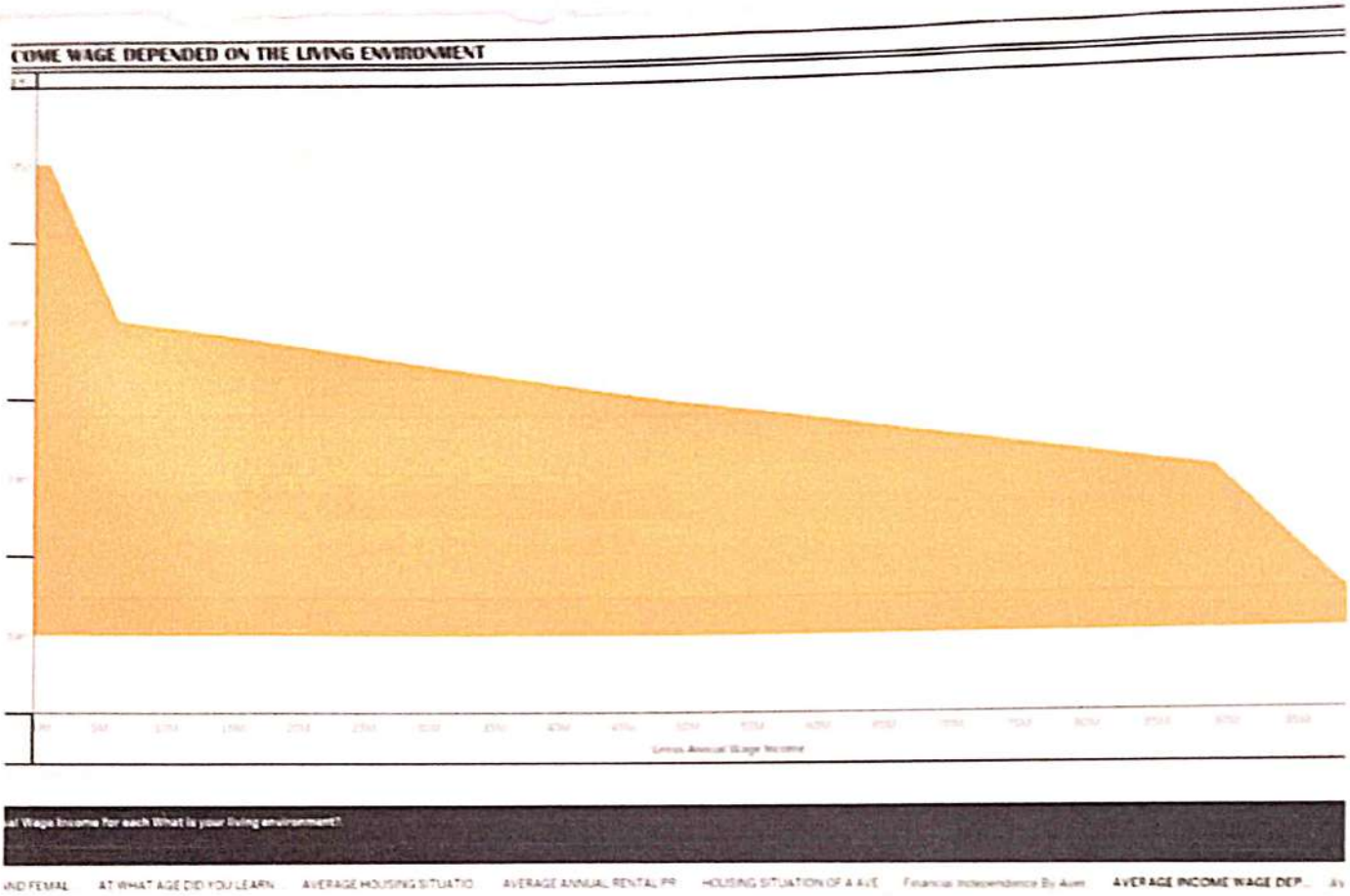


Relationship status of Person financial freedom

→ The Relationship status is also depends on the financial freedom of the person.

→ Color shows the details of the particular financial situation in the their lifes.

Activity - 1.7:

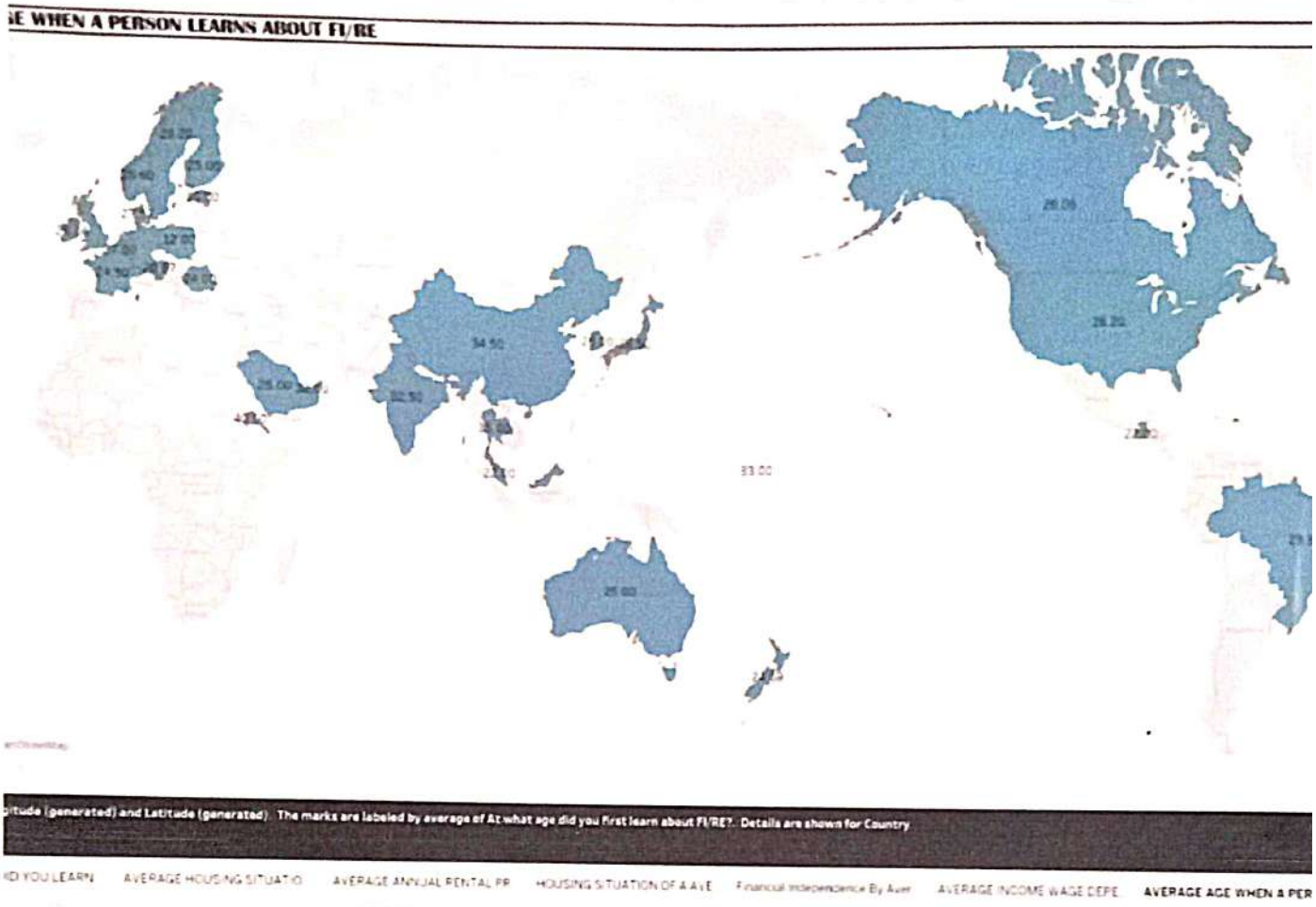


Average Income wage idepended on the Living environment.

-> The Sum of Gross Annual wage income for each what is that particular country Living enuir -onment.

-> The Income of a person depends on the Intreset. The intrest of the person depends on ~~Lig~~ Living environment of that person

Activity - 1.8 :-



Average age when a Person Learns about FI/RE

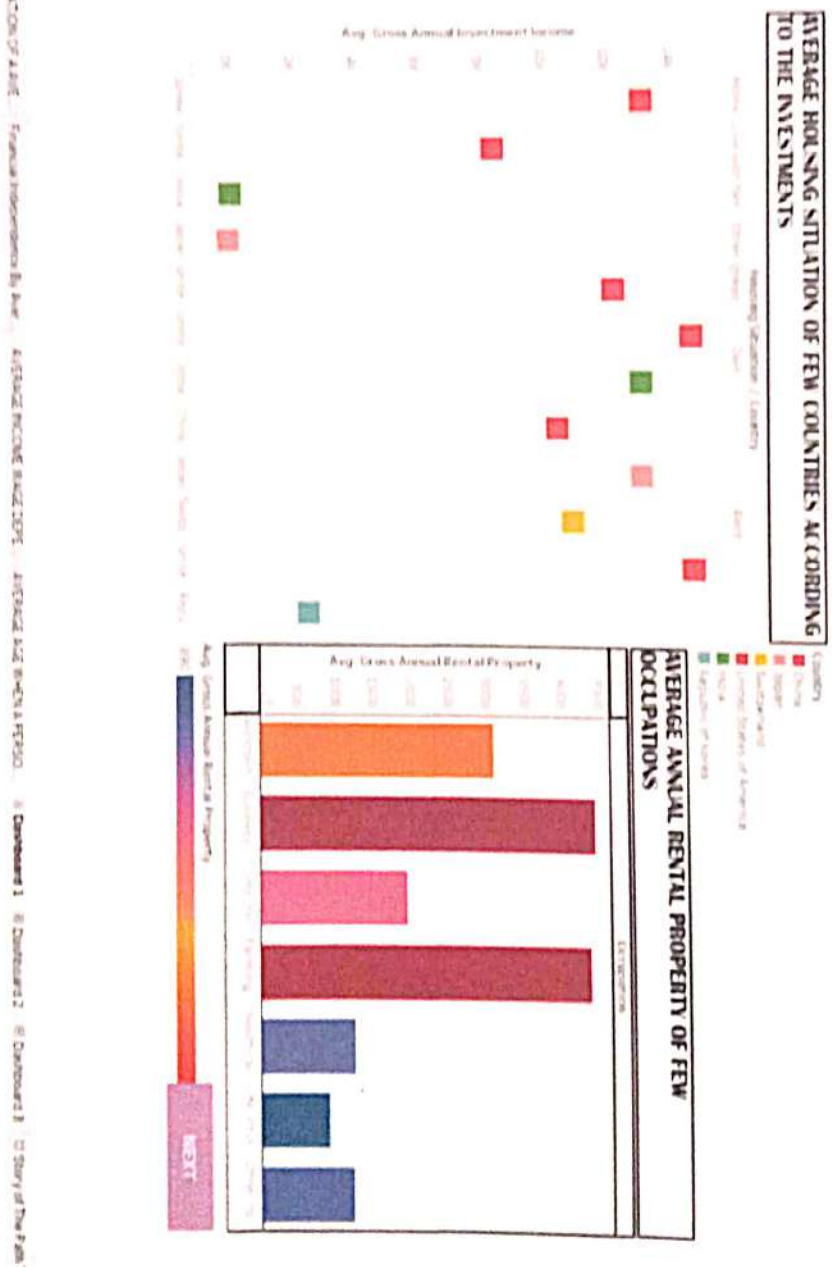
→ This Visualization is based on the map on Longitude and Latitud

→ The marks are labeled by average of At what age did you first learns about FI/RE?

→ Details are shown for country.

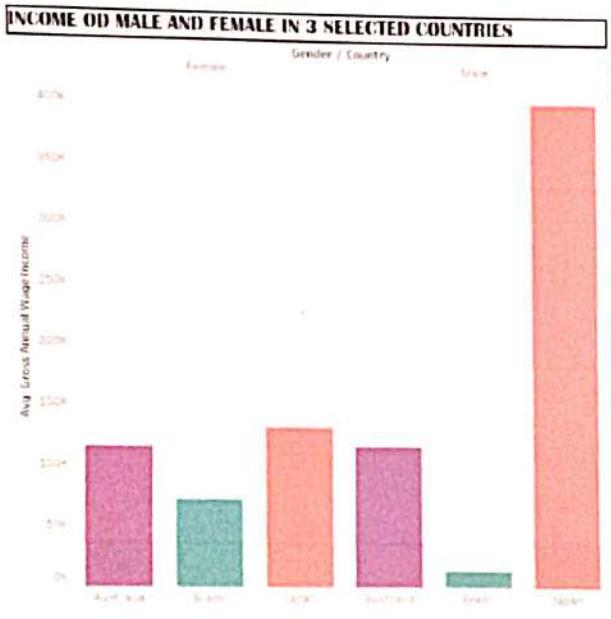
Dashboard 1:

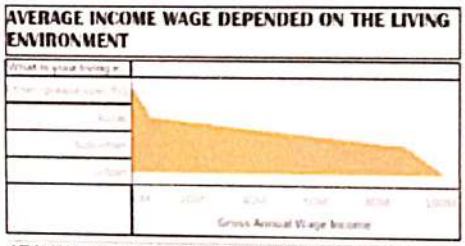
- Average Gross annual wage Income by Gender
- Average gross Annual wage Income by occupation

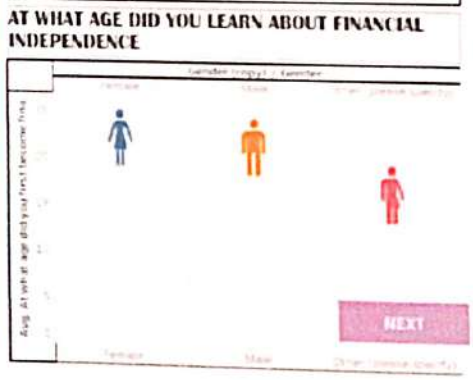


Dashboard 2:

- Financial Independence by Average age and gender
- Average gross Annual coage Income by Living environment
- Financial Independence by Average age and Relationship status.



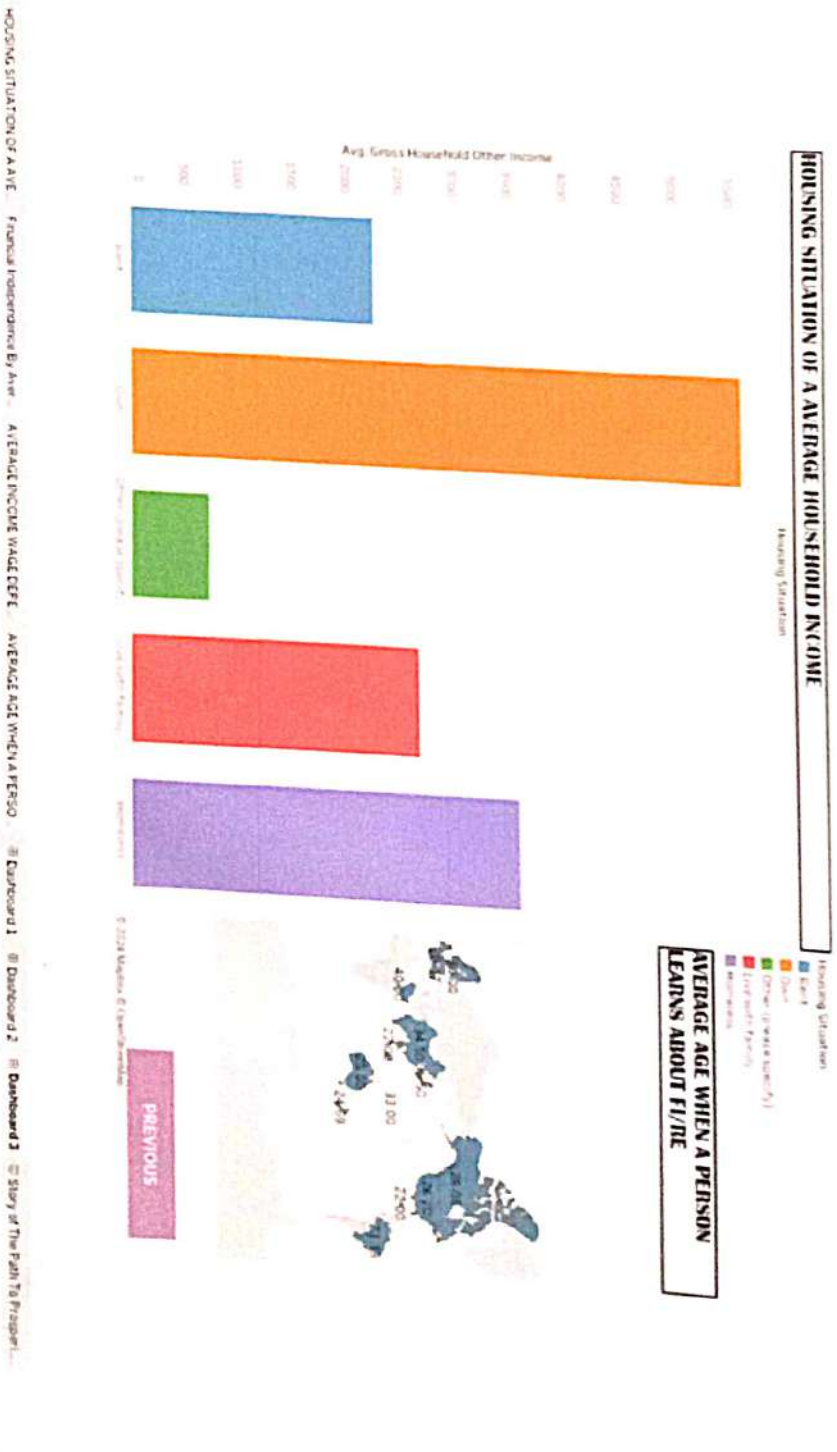




HOUSING SITUATION OF A AVE... Financial Independence By Aver... AVERAGE INCOME WAGE DEPE... AVERAGE AGE WHEN A PERSO... Dashboard 1 Dashboard 2 Dashboard 3 Story of The Path To Prosperi...

Dashboard 3:

- financial independence by housing situation & loan debt
- Average age when a person learns about FIRE.

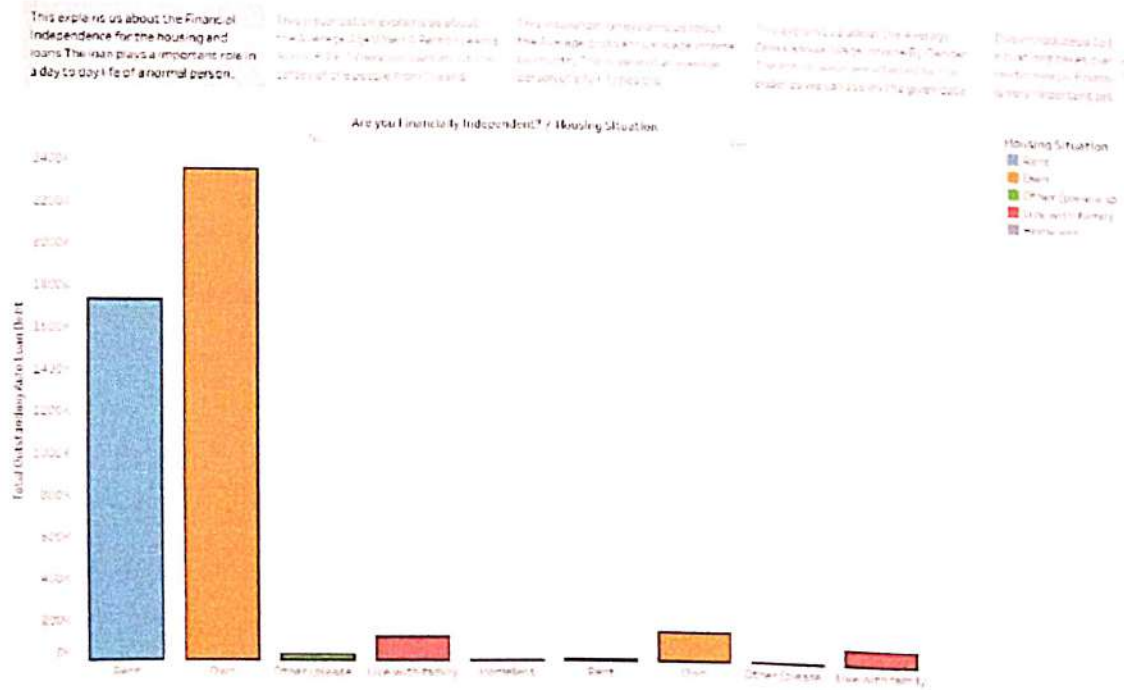


Milestone 5: Story of the path to prosperity.

In financial independence, storytelling with the tableau is vital for illustrating the journey towards financial freedom, highlighting key milestones, and empowering viewers to understand and take control of their financial futures though data-driven insight presented in a compelling narative format. Utilizing tableau's features such as interactive visualizations and personalized dashboard enables individuals to track progress, identify opportunities, and makes informed decisions aligned with their financial goals.

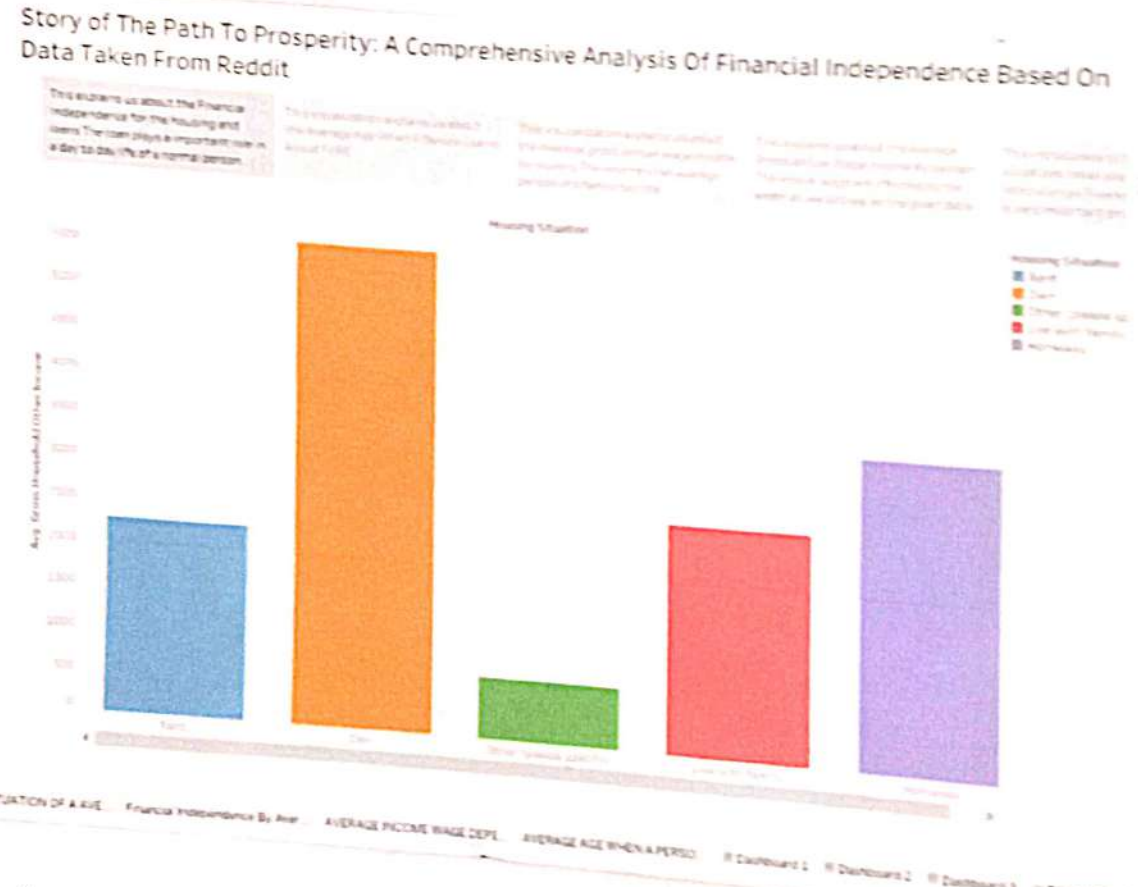
Activity 1:

Story of The Path To Prosperity: A Comprehensive Analysis Of Financial Independence Based On Data Taken From Reddit



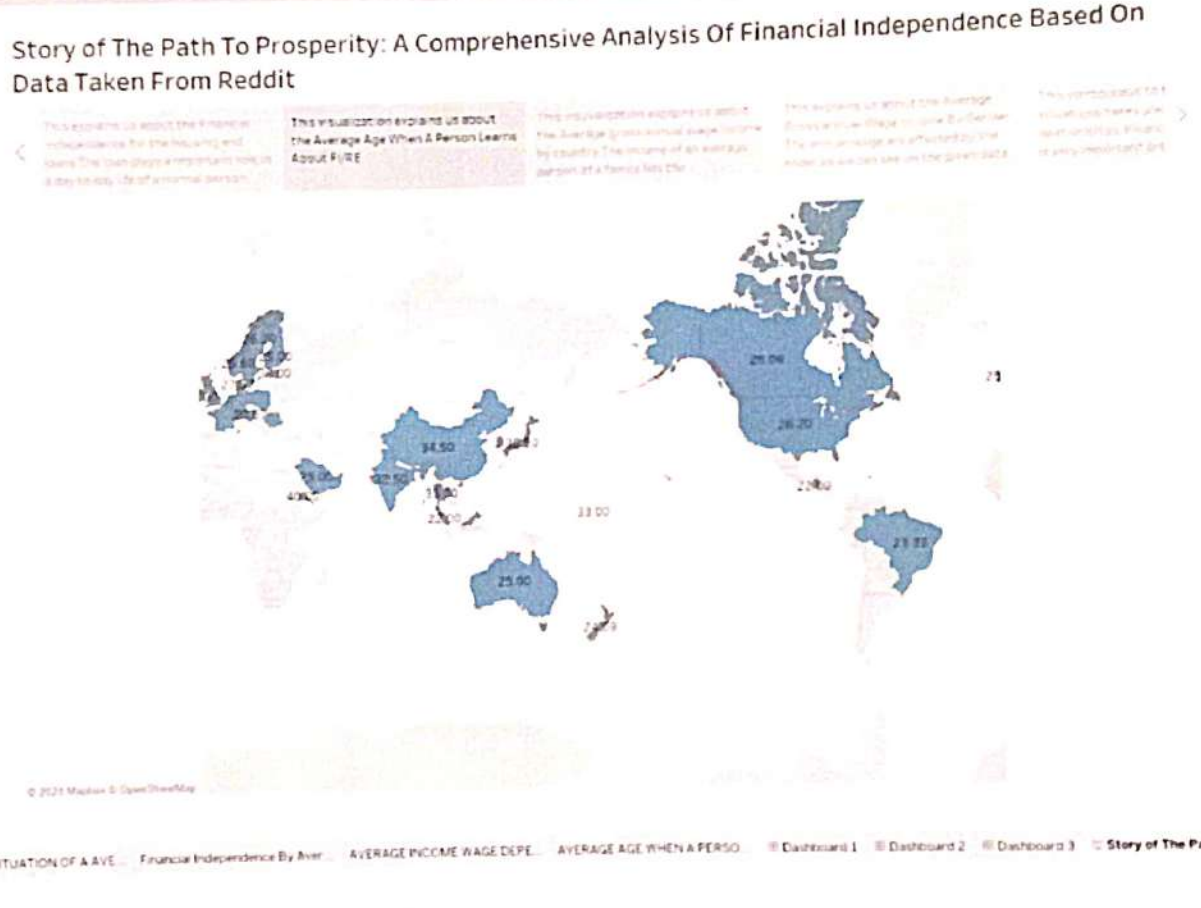
Activity - 1.1 :-

Housing Situation is done for different categories.



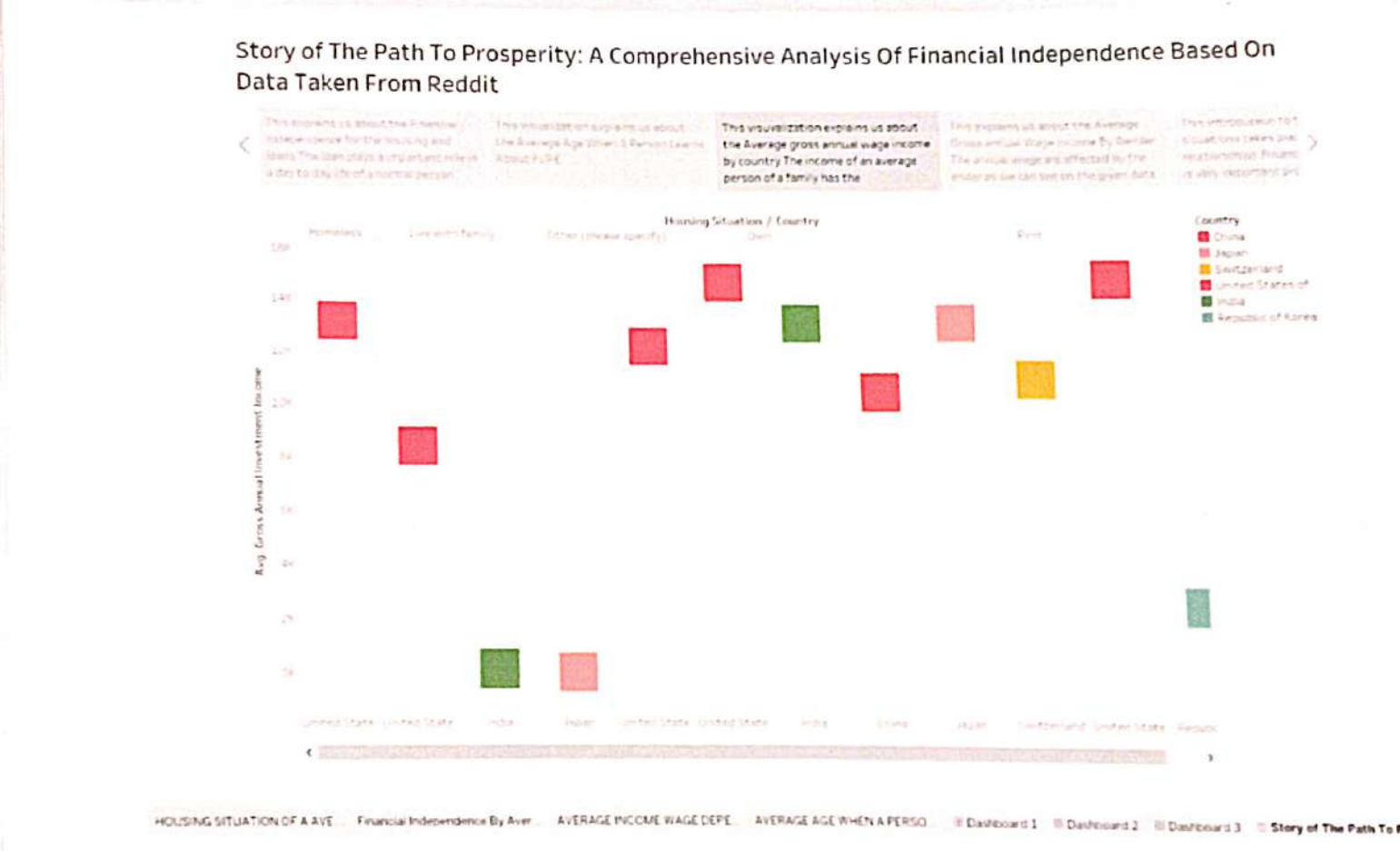
→ This explains us about the Financial Independence for the housing and loans. The loan plays a important role in a day to day life of a normal person.

Activity - 1.2 :-



→ This visualisation explains about the Average age when A Person learns about FIRE.

Activity - 1:3:- The housing situation of a person is a very crucial status.

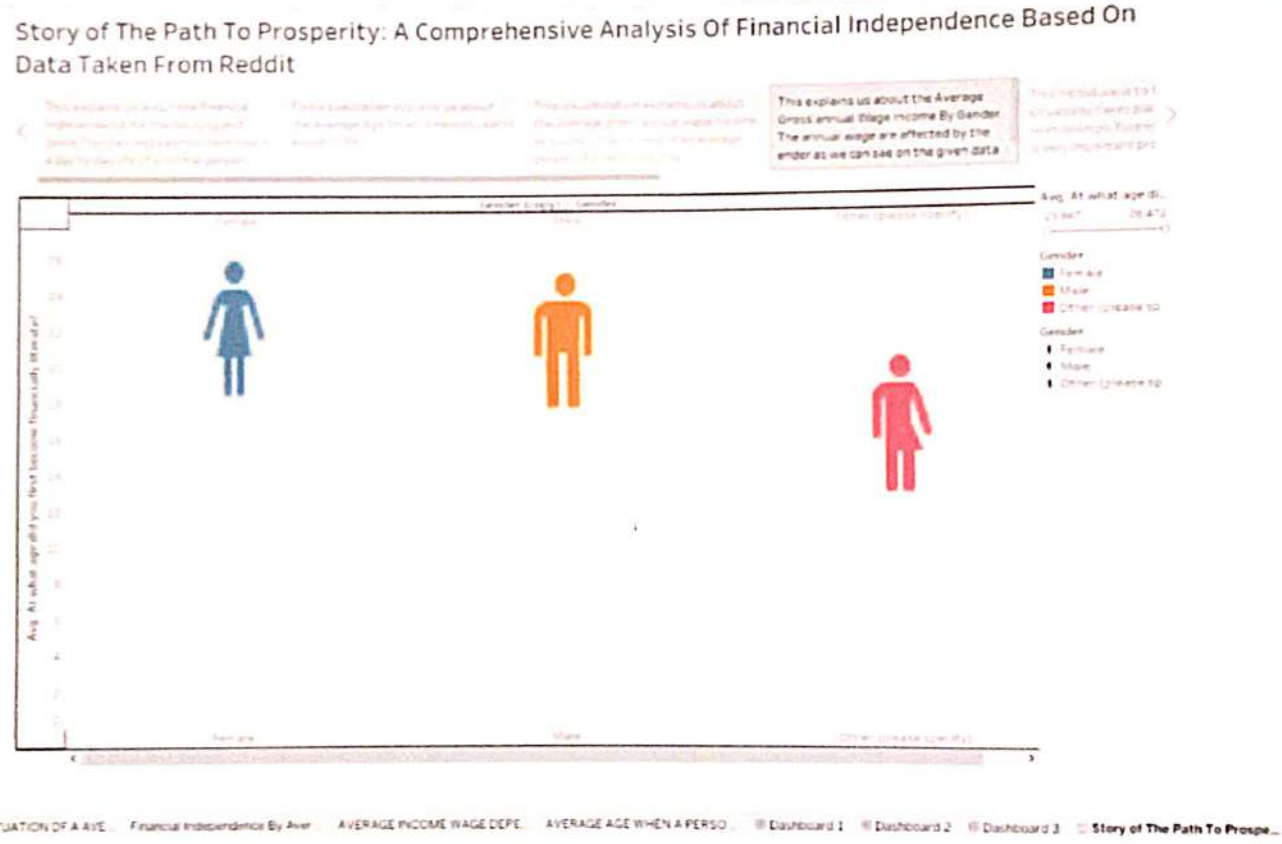


→ This explains about Average housing situation of few countries according to the investements.

→ The future always needs savings and savings comes from investements.

Activity-1.4:

The three genders male, female and others for the Financial freedom.

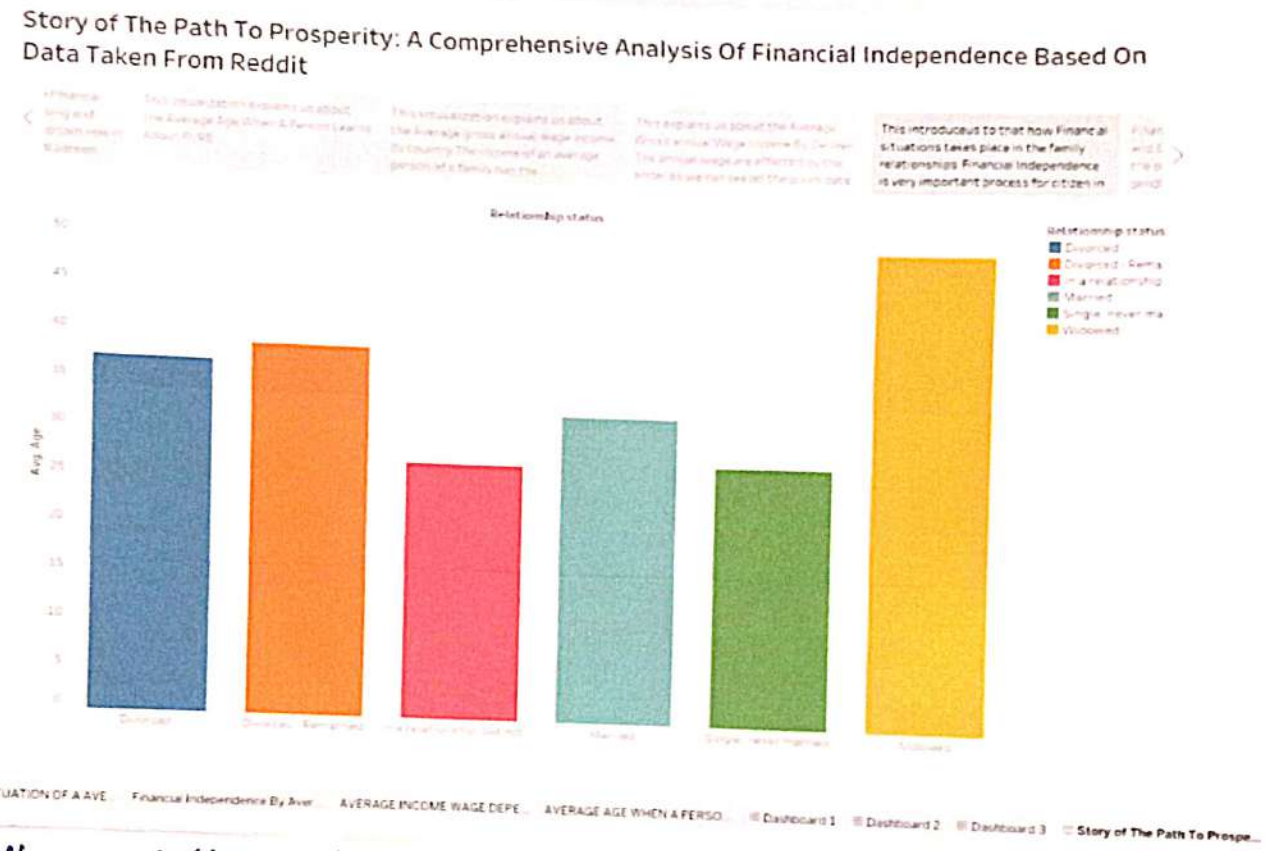


→ This explains about AT what Age does a person learns about Financial freedom. The annual of a person

→ The annual wages are effected by ~~elders~~ enders as we can see in the above page.

Activity - 1.5 :-

Financial indepence is very important process for citizen.

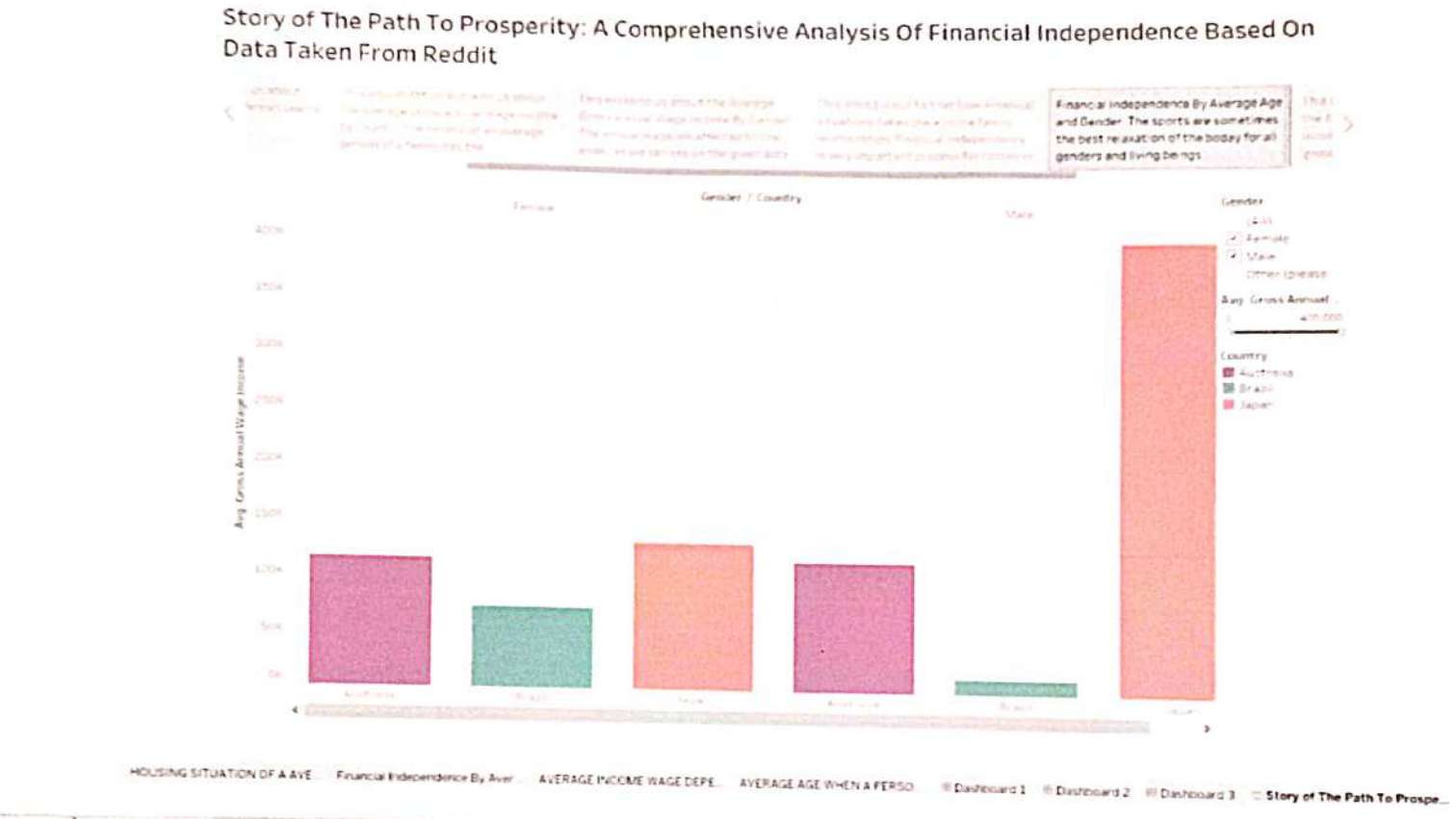


→ The relation status of a person with finanual freedom.

→ We can see widowded are highly financial state

Activity 1.6:

Financial Indepence is very importat for all the citizen.

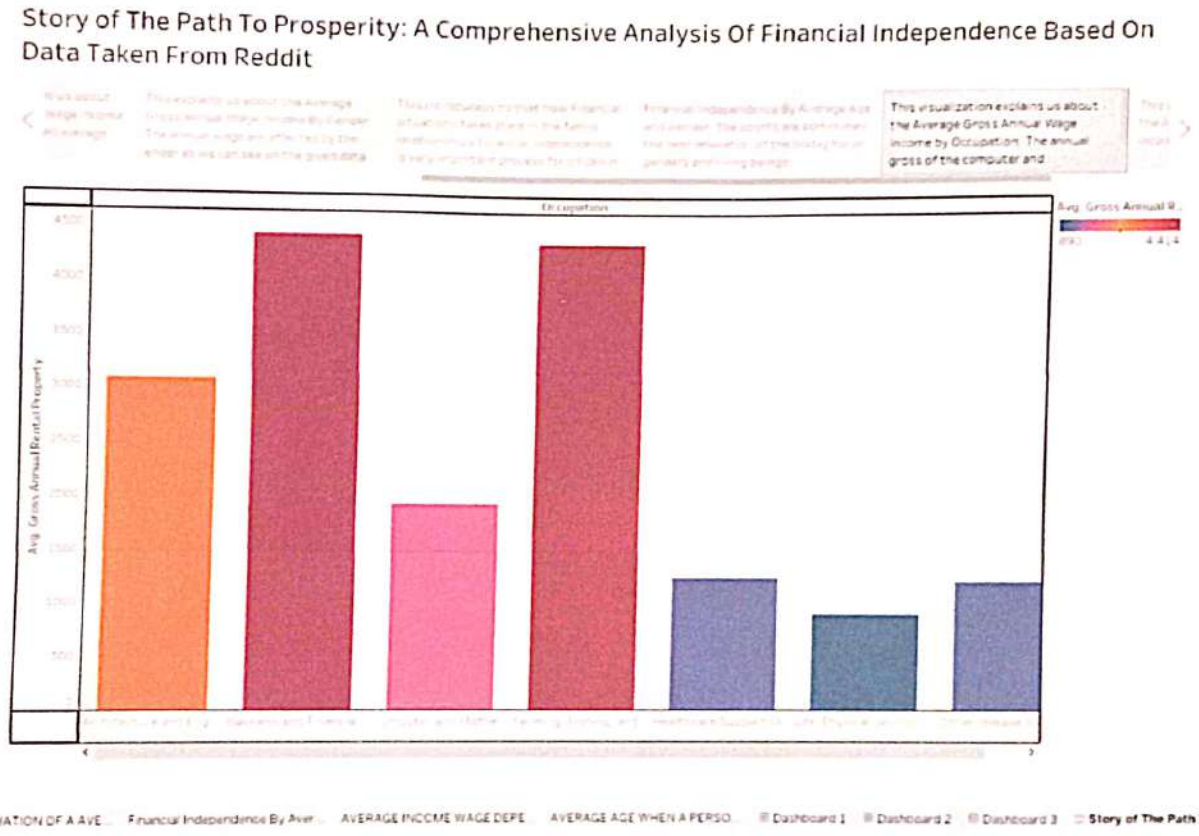


→ Income of Male and Female in 3 different selected countries.

→ All genders are equal and not accepted for in the financial equality.

Activity - 1.7:

Financial occupations in different fields.

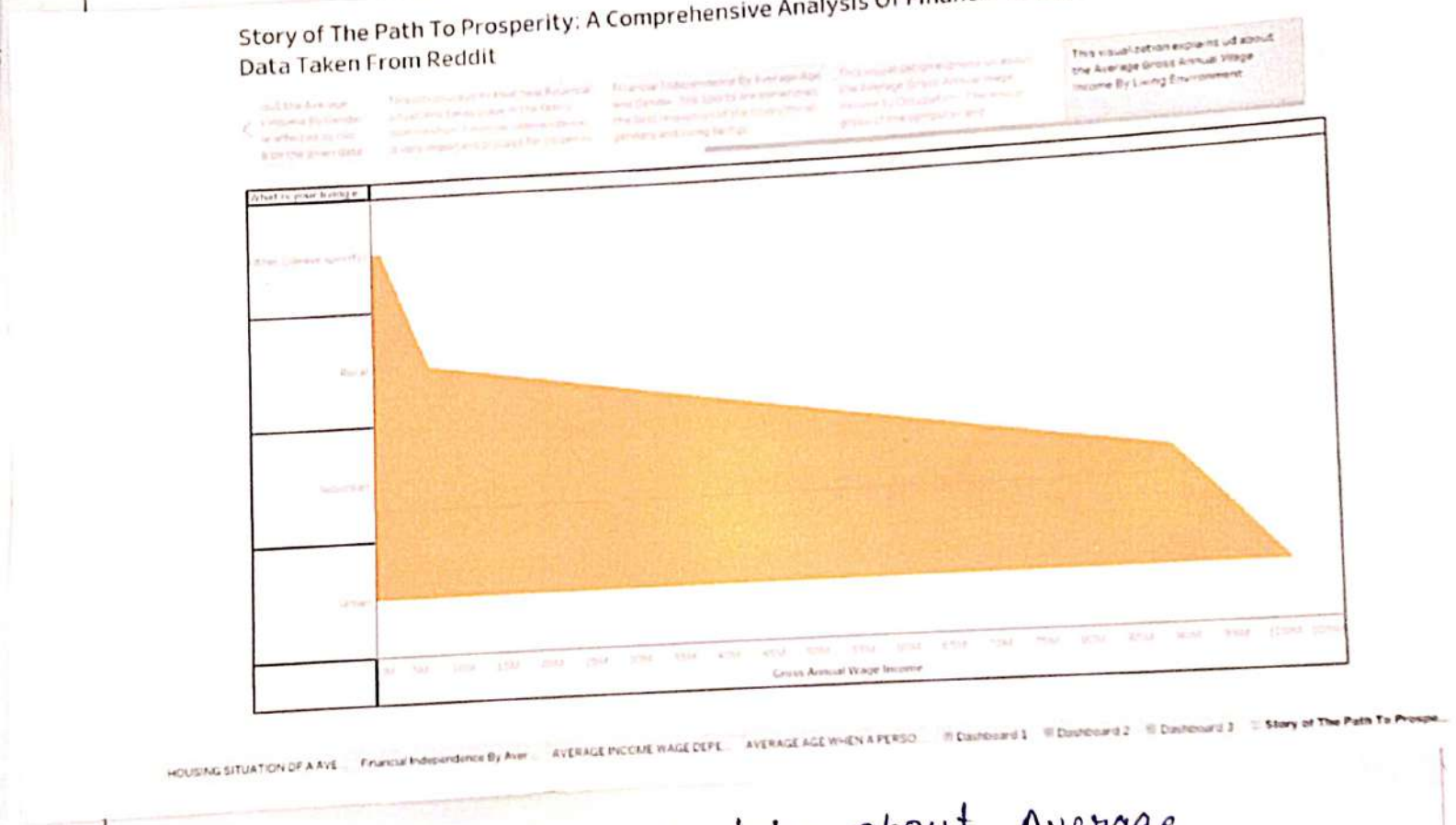


→ This visualization explains about Average annual Rental Property of few occupations.

→ The annual gross of the Computer and mathematical occupations.

Activity - 1.8 :-

Financial Independence in different Categories.



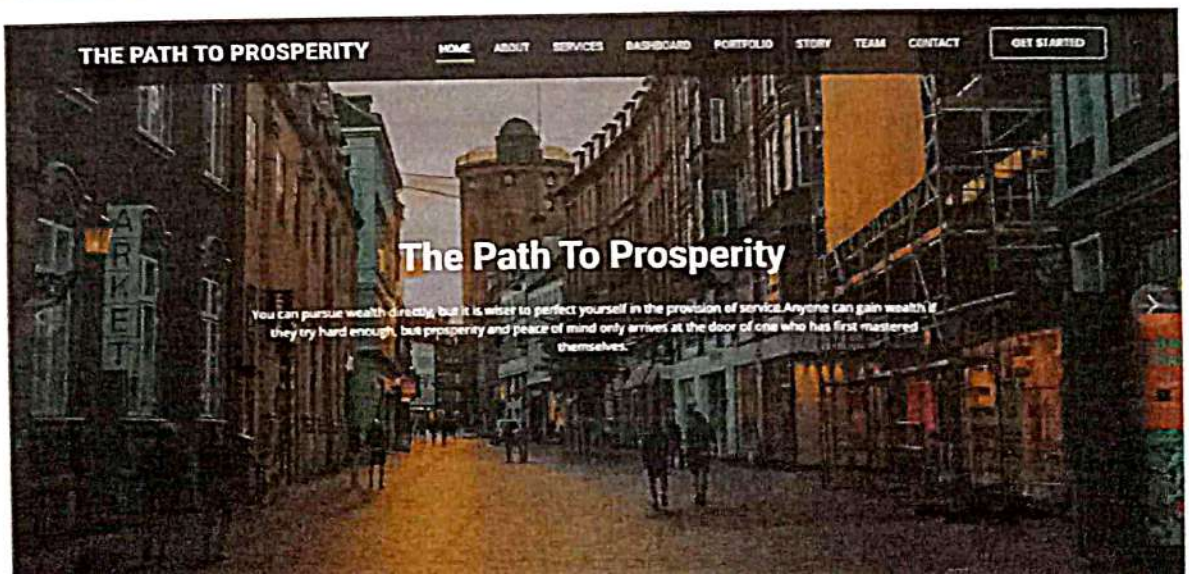
→ This visualisation explains about Average income wage dependend on the living environment.

Milestone 7 : Web integration

Publishing helps us to track and monitor key performance metrics, to communicate their results and progress. help a publisher stay informed, make better decisions, and communication their performance to others.

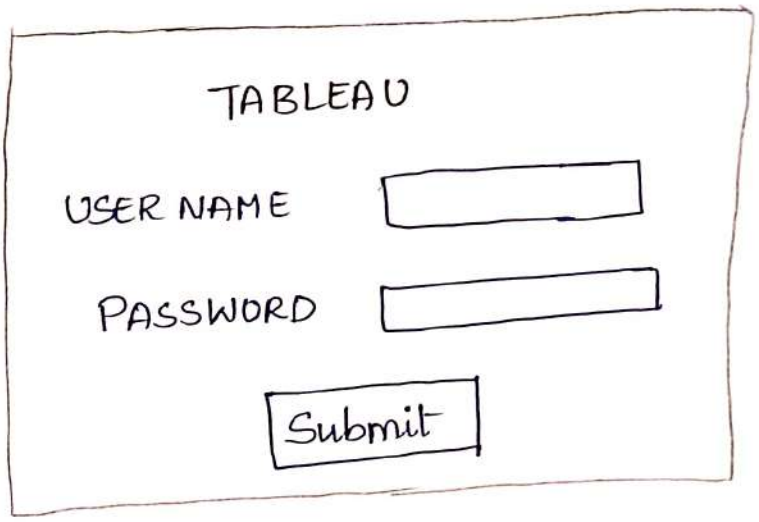
Publishing dashboard and repots to tableau public

step1 : Go to dashboard / story. click on share button on the top ribbon.



Given the server address of your tableau public account and click on connect.

Step 2: Once you click on connect it will ask you for tableau public user name and password.



Once you login into your tableau public using the credentials, the particular visualizations will be published. into tableau public

Activity 1: Dashboard and story embed with UI with flask.

Activity 2: No of calculation fields.

- abc GENDER
- AGE
- # HOW-MA... NCOME
- abc RELATION... STATUS
- abc ARE_YO...MBINED
- abc Do you h... hildren?
- CHILDREN
- abc ARE_YO...NDENT_
- abc OCCUPATION
- abc HOUSIN.. UATION
- COUNTRY
- abc WHAT_I..NMENT_
- GROSS... INCOME.

- abc WHAT_I..NMENT_
- GROSS.... INCOME
- GROSS.... INCOME
- GROSS... OPERTY
- GROSS.... INCOME
- GROSS... INCOME
- TOTAL_O.. D_DEBT
- TOTAL... N_DEBT
- AT_WHAT.. FIRE_

Milestone 8: Web Integration

Publishing helps us to track and monitor key performance matics, to communicate results and progress, helps a publisher stay informed, make better decisions and communication their performance to other.

Integrating dashboard / reports / stories to web

Activity 1: Record explanation video for project end to end solution. by uploding the video in drive and make it public, then copy the link of that video and upload it in the Github.

Activity 2: Project Documentation - step by step project development procedure

Project documentation can be uploaded by creating the document pdf of the written work (Soft copy of the written work) and then upload it in the Github by creating the project soft copy folder. By uploading the document in the github the step have completed and then assign the tasks and submit the project to the college managment.

Activity 3:

1. Financial Independence by Average age and Gender
2. Average gross annual wage income by Gender
3. financial Independence by Housing situation & loan debt.
4. Average gross annual wage income by country
5. Average gross Annual wage income by Occupation.
6. Relationship status & Average age by financial Independence
7. Average gross Annual wage income by Living environment.
8. Average age when a Person Learns about FIRE.