Milestone 1: Define Problem / problem understanding

Activity: 1 Specify the business problem

The project is majorly distributed into 4 parts

1. Downloading the data set and loading it in Tableau

2. Plotting the data using different types of options available

3. Altering the visualisations to make them meaningful using the features available in Tableau.

4. Exploring features like forecasting without writing codes the way you need to do ML.

5. By the end of this project you will know funda-mental concepts and can work on the tableau.

6. Gain a broad understanding of plotting different graphs

7. Able to create meaningful dashboard.

Milestone 1: Define problem / problem understanding

Activity 1: Specify the business problem

Refer project Description

Activity 2: Business requirements

This project is useful from the perspective of Countries who have high number of people suffering with depression. There are many complementing resons which support depression. The countries which have high percentage of people having depression can see the underlying reason for the depression in their country. The ultimate goal is to gain insights and improve performance through data visualisation techniques

Activity 3: Literature survey

A literature survey for the depression analysis would involve researching and reviewing previous studies, articles, and reports on the topic. This could include information on the methods and techniques used for tacking depression as well as the resul and conclusions of these studies. Some potential areas of focus for a literature survey on depressio analysis could include:

Risk management which involves identifying, assessing and mitigating the various risks facing

country, such as defense risk, market risk, and operational risk.

The reasons that cause depression or support
· depression

Activity 4: Social or Business impact.

Social impact: This project throws light on the reasons causing depression, how they are affecting countries all around the world. There are a number of mental disorders. If these reasons are controlled, the percentage of depression affected people will reduce.

Business model/impact: The business impact of this project is to the countries that are affected by depression huge amounts. The reasons are stated in the projects as different factors affect depression.

Milestone 2: Data Collection & Extraction from Database

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

Activity 1: Downloading the dataset

Please use the link to download the dataset: The data was sourced from a Github repository.

Activity 1.1: understand the data.

Data contains all the meta information regarding the columns described for the CSV files

Column description of the dataset:

1. State : Name of the indian state where the data belongs to

2. year : year ranges from 2001- 2012, the complete field contains data for that year respectivly

3. Type code : Major classification of "why Did people commit Suicide"

4. Type : subclassification of type code

5. Gender : Either the person committing suicide was a male/female.

6. Age group : what age group does the person belong to who committed suicide

7. Total : count of people who committed suicide and has the common above 6 mentioned parameter.

Activity 2: Storing Data in DB & perform SQL operations

Before you can build a view and analyze your data, you must first connect tableau to your data, you ~~A~~ tableau supports connecting to a wide variety of data, Stored in a variety of places.

The data might be stored on your computer in a spreedsheet or a text file or in a big data, relational or cube.

Activity 3:

Connect DB with Tableau data collection is the process of gathering and measuring information on various of interest, in an established systematic fashion that enables research questions test hypothesis and evalute outcomes and generate insights from the data.

Milestone 3: Data preparation

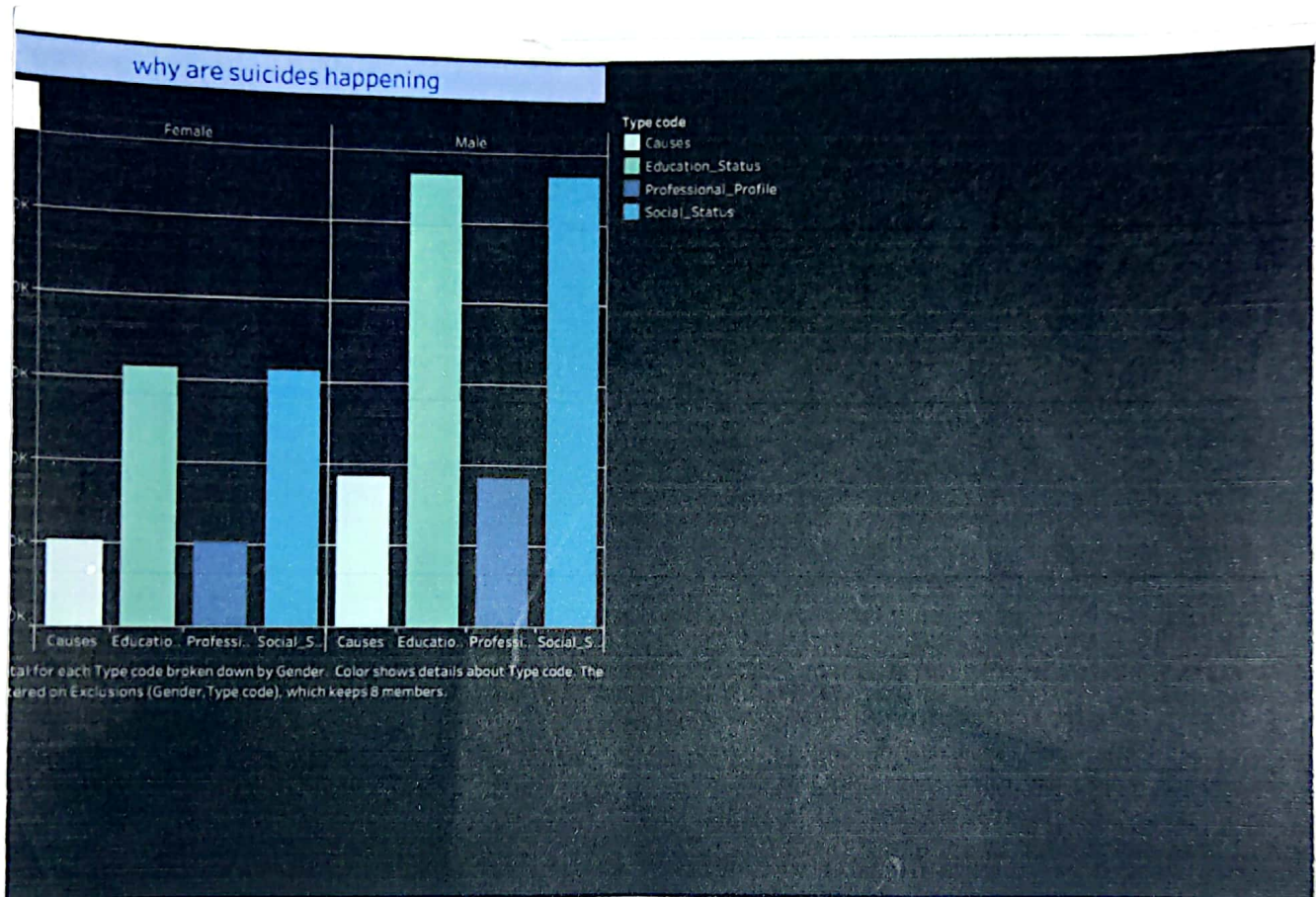**Activity 1: prepare the data for visualization.**

Preparing the data for visualization cleaning the data to remove irrelevant or missing data. into a format that can be easily visualized. exploring the data, preparing the data for visualisation software and ensuring the data is accurate and complete. This process helps to make the data easily understandable and ready for creating visualizations to gain insights into the performance and efficiency.

Milestone 4: Data visualization

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

Activity 1.1.

Reasons behind suicides happening in india
(2001- 2012)

why are suicides happening

Female   Male

Type code
- Causes
- Education_Status
- Professional_Profile
- Social_Status

Causes Educatio. Professi. Social_S.. Causes Educatio. Professi. Social_S..

tal for each Type code broken down by Gender. Color shows details about Type code. The
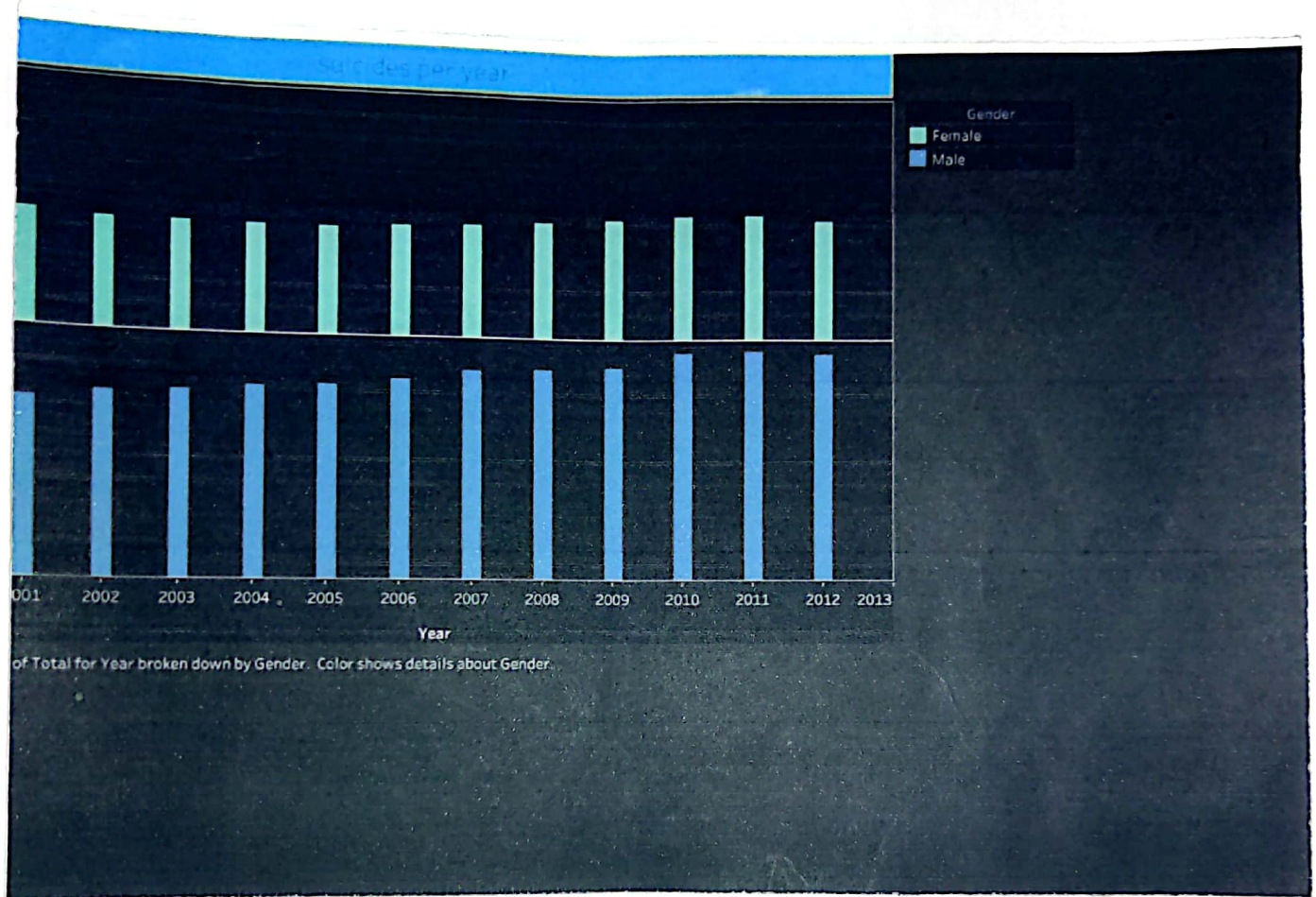ered on Exclusions (Gender, Type code), which keeps 8 members.

Using for visualizing the above, we will require
the following code

- Type-code
- Total
- Gender.

From this data, we will be plotting a "Side by side bars"
to see the comparision b/w males & females as well as the plot
the total no. of suicides.

Activity 1.2:

Relationship between years and suicide cases count.

In our data, we have two columns named year which contain the year of the data generated and total contains the number of suicides happening. Tableau automatically arranges the data as we put it for plotting and plots the sum of the total number of sucidies for a particular year.
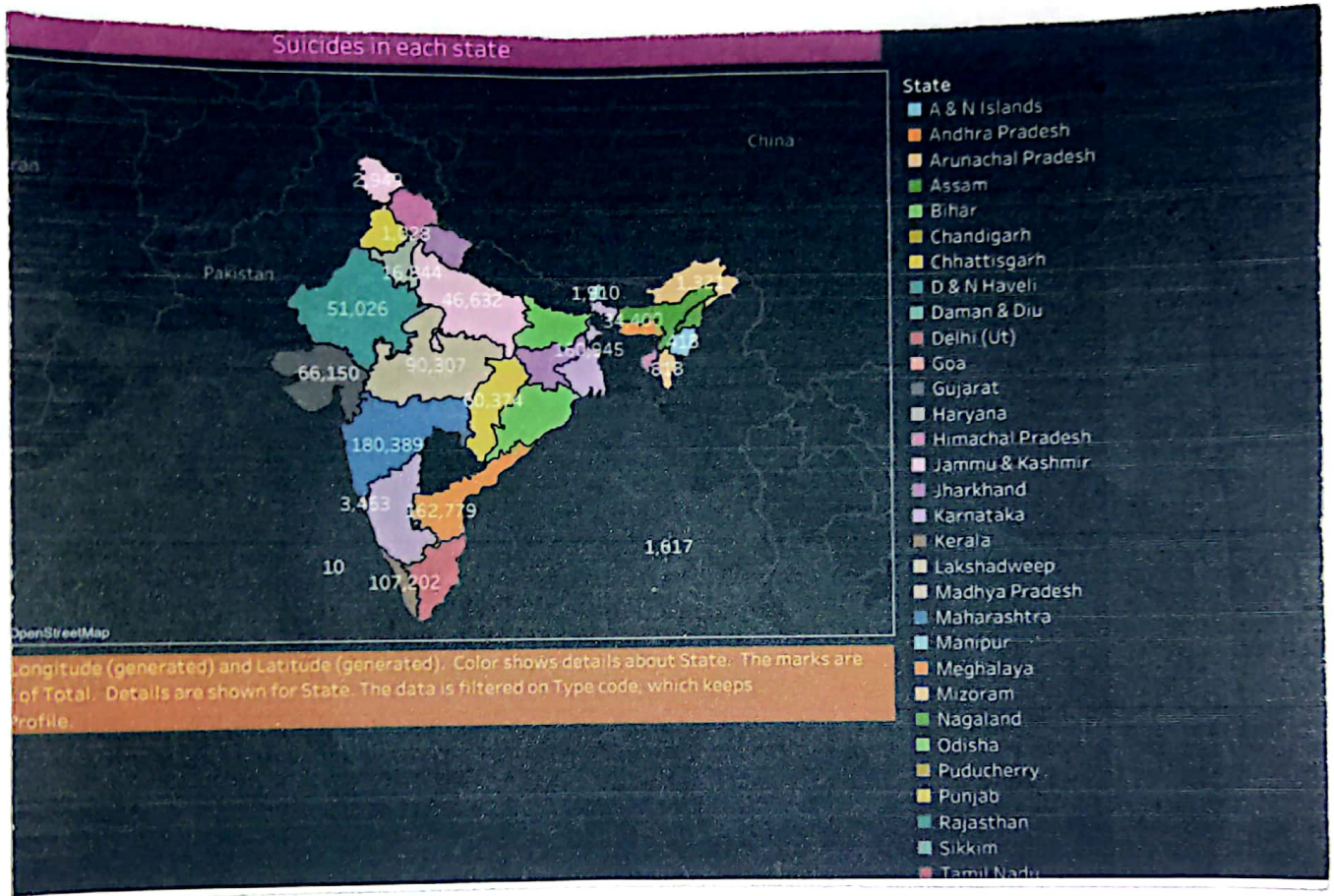
Activity 1.3:

Age wise Analysis of suicide data

We will be plotting a simple bar charts to show the number of suicide cases according to age groups. one thing that we need to notice here is, majority of our data did not have the correct age group values, so they were · given a trivial value (0-100) so, we had to remove that column due to which the data got a little biased, but it was still good enough for our visualisation.

Activity 1.4:

Suicides in each state over the course of 12 years.

In this milestone, we will analyze the state wise suicide rate for multiple reasons.

As in our data, there are many states mentioned, so to see which part of india is having more suicides, we decided to plot a "MAPS" type code plot. Here the colour gradient form is used and a heatmap kind of plot is generated, where the number of suicides directly affects the color

Activity 1.1 ; Reasons behind Suicides happening in India
(2001 - 2012)

SUCIDIES IN INDIA 2001-2012 DASHBORD