



Assignment One

Delivery Instructions:

1. Cheaters will be graded by *–ve points, Don't copy any code from anywhere.*
2. Due Date: **December 05, 2022**
3. No late submission will be accepted.
4. Each student should solve this assignment **individually**.
5. upload your R code as well as screenshots of the outcomes in zip file
YourGroup-StudentIID-Assignment1.zip

Load the medical data from the given file data.csv, which is a dataset of a patient demographic containing standard information regarding individuals from a variety of ancestral lines.

Attributes

- id
- gender: male or female
- dob: Date of Birth
- zipcode
- employment_status
- education
- marital_status
- children: Number of children
- ancestry: Ancestry refers to a person's ethnic origin or descent
- avg_commute: average commuting time
- daily_internet_use
- disease



Then Perform the following tasks using R:

1. Show the **first 10 rows** and the **last 10 rows**.
2. Using **Date of Birth attribute**, extracts the **gender, average commuting time, and ancestry data** for the oldest three.
3. Identifies the **gender, daily internet use, average commute time, ancestry, and diseases** among those with more than two **children**.
4. Using a table , **indicate the number of rows that have any missing values and the number that do not**.
5. Provide a **summary** of the data for each column, showing "**Min, 1st Qu, Median Mean, 3rd Qu and Max**" for each numerical column and the **Number of each Category** for categorical data.
6. Identify the **columns** that are having any **missing values**, and then **remove** any rows where **all of the columns have missing values**.
7. Show the **average daily usage** of the internet for each level of education.
8. Show the distribution of the **children count** using a **histogram**.
9. Utilizing **line graphs**, compare how **men** and **women's avg commute distributions** differ.
10. Make a **histogram** to show the **gender distribution**.
11. Use a **histogram** to show **gender distribution** for each **disease**.
12. Use a **chart** to demonstrate whether there is a **relationship** between **age** and the type of **disease**.
13. Make a **chart** to show the total number of **children** per **disease**.
14. Make a **chart** to show the **ancestry distribution**.