

**Exploratory Data**

**Analysis (EDA)**

Cardiovascular Disease dataset Exploratory

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# Introduction

Heart and blood vessel disease (also called heart disease) includes numerous problems, many of which are related to a process called atherosclerosis.

These data were selected to calculate the number of heart patients in order to dispense medications.

# Study [Methodolog](https://github.dihe.moe/sanjeevai/nyc_subway_data_analysis#p2)y

The methodology of this project is as follows, extracting data from Kaggle which is used

cardiovascular disease dataset and it was more than 7.0000 rows and 12 column.

applied comprehensive analysis methods to the data and extracted important information from the data, for example : How did I convert date to age? Age divided by number of days of the year.

# Data Description

The data set is provided in .csv format, contains information of

id ,age ,gender, height ,weight ,ap\_hi ,ap\_lo ,cholesterol, Smoke The data set was extracted from Kaggle

|  |  |
| --- | --- |
| **Variables** | **Description** |
| **Id** | ID number |
| **age** | in days |
| **gender** | 1 - women, 2 – men |
| **height** | cm |
| **wight** | kg |
| **ap\_hi** | Systolic blood pressure |
| **ap\_lo:** | **Diastolic blood pressure** |
| **cholesterol** | 1: normal, 2: above normal, 3: well ablove norma |
| **smoke** | whether patient smokes or not |

# Tools and Libraries:

* Python.
* Jupyter Notebook.
* PowerPoint.
* Excel
* NumPy.
* Pandas.
* Matplotlib

# Data analysis

After we prepared the data, Then we used some of visualisation tools such as seaborn and matplotlib

Number of cardio patients

A picture containing text, shoji, crossword puzzle, clipart

Description automatically generated

Number of female and male by gender having heart issues?

Shape

Description automatically generated with medium confidence

Number of male and female smokers

Chart, pie chart

Description automatically generated

The ratio of calcitriol to males and females

Chart

Description automatically generated

# Conclusion

These data were selected to calculate the number of heart patients in order to dispense medication.

**Reference**

<https://www.kaggle.com/sulianova/cardiovascular-disease-dataset>