

The Prevalence of Cardiovascular Disease and Associated Risk Factors

QUESTIONS:

- 1- What is the incidence of cardiovascular disease in smokers population ?
- 2- Does alcohol relate as a risk factor of getting a cardiovascular disease ?
- 3- Are cardiovascular diseases correlated with age ?
- 4- Systolic and diastolic hypertension independently may attribute as a risk factors of getting a cardiovascular disease ?

DATA DESCRIPTION:

- Objective: factual information.
- Examination: results of medical examination.
- Subjective: information given by the patient.
- Data provided by (<https://www.kaggle.com/sulianova/cardiovascular-disease-dataset>) has been used in this project.

FEATURES:

There are 13 columns in this dataset which are:

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|-----------------------------|---|
| • Id (unique number). | • Cholesterol. |
| • Age (calculated by days). | • Glucose. |
| • Gender. | • Smoke (if the person is smoking or not). |
| • Height. | • Alcohol (is the person drinking alcohol). |
| • Weight. | • Active (is the person doing any sport). |
| • Systolic blood pressure. | • Cardio (is the person having cardiovascular |
| • Diastolic blood pressure. | disease or not). |

TOOLS:

- Data analysis in pandas.
- Python visualization libraries (Matplotlib , Seaborn).
- Module data by classification modules.

THE MVP GOALS:

- Explore and Analyze the data.
- Find the best module with the highest accuracy related to the cardiovascular disease and its risk factors.