Cardiovascular disease Prediction - Project Proposal

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Introduction

The cardiovascular disease prediction is an interesting problem in the data science field since it leads the cause of death across the world as the statement of World Health Organization. This project proposal aims to explore the different features that might increase or affect the chance of cardiovascular disease occurrence and then use the extracted knowledge to determine whether a person is at risk of cardiovascular disease.

Needs

This project proposal starts with questioning and exploring the factors that related to cardiovascular disease. creating a machine learning model is the planned solution to predict the cardiovascular disease occurrence based on that factors.This project could benefit health organizations, hospitals or general people who wants to know whether they at risk or not.

Data Description

I'm using cardiovascular disease dataset taken from Kaggle website. It has 70,000 records and 12 features. For the features, it has age, gender, height, weight, systolic blood pressure, diastolic blood pressure, cholesterol levels, glucose levels, alcohol intake, physical activity, smoking, and cardio disease presence. The cardio disease presence is the target and the rest of columns are indicators.

Tools

I'm planning to use Jupyter Notebook to create the machine learning model, and apply different packages from python such as pandas, NumPy, sklearn and other related packages.