HEALTH STATUS PREDICTION

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PROJECT DESCRIPTION

Create an exploratory visual that is both engaging and informative to a user about Heart Disease based on multiple risk factors.

PROJECT GOAL

1. Create an interactive visual!

2. Show the correlation between the most common Heart Disease symptoms and their Heart Health Status.

TECHNOLOGIES

Python

Tableau

D3.js

Collaborative Notebook (Google)

DATA COLLECTION

Each member of the team was required to find   1 dataset which totaled to 4 datasets for analysis.

Dataset source: Kaggle

HYPOTHESES

1. The higher the cholesterol, the more likely a person is to have heart disease.

2. Older patients have a higher likelihood of being heart disease positive.

3. There is a direct correlation between patients who have diabetes and those who have heart disease.

4. Using hypertension, physical inactivity, and smoking as risk factors, people are at the high risk of cardiovascular disease if they have hypertension.

STATISTICAL RESULTS

The linear regression analysis cholesterol and heart disease shows an R squared value of 0.1526 which is not a strong correlation.

 We can clearly determine that the age for a heart disease positive patient is typically higher than patients without

The correlation between diabetes and heart disease results in an R squared value of 0.0499 which is extremely low.

VISUAL RESULTS

Disclaimer: additional visual results can be found here on our collaborative notebook.