CS 210 Spring 2022 Heart Disease Group 17

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**HEART DISEASE PROJECT PROPOSAL** 

**Problem Statement** 

Today, one of the most important causes of death for people is heart disease. Many

people suffer from heart disease, which can have fatal consequences. Predicting heart

diseases is very important for prolonging human lifespan. For this reason, with the help

of a large data set, we can examine and predict the effect of some factors such as age,

gender, genetic predisposition, place of birth on heart diseases.

**How Are We Going To Tackle This Problem?** 

We are going to examine data to find out which attributes in data are correlated

to different heart diseases by using logistic regression. We are creating a program

that makes predictions about the user's heart health by comparing the data entered by

the user with the datasets of the program.

## **Methods and Tools We Are Planning to Use**

As we progress this project, we will use some tools for exploration and visualization. For exploration, we will use tools such as Selenium and Beautiful Soup that we can do web scraping. For visualization, we will use libraries such as numpy and pandas.

## **Expected Outcome**

According to the input data we entered for prediction, we plan to get an output that determines the correlation rate for heart diseases and achieve an accuracy of 80% or more.

## **References:**

- <a href="https://www.kaggle.com/fedesoriano/heart-failure-prediction">https://www.kaggle.com/fedesoriano/heart-failure-prediction</a>
- <a href="https://www.kaggle.com/itachi9604/disease-symptom-description-dataset">https://www.kaggle.com/itachi9604/disease-symptom-description-dataset</a>
- <a href="https://www.kaggle.com/johnsmith88/heart-disease-dataset">https://www.kaggle.com/johnsmith88/heart-disease-dataset</a>
- https://www.kaggle.com/mazharkarimi/heart-disease-and-stroke-prevention
- <a href="https://www.kaggle.com/datasets/meetnagadia/heart-disease">https://www.kaggle.com/datasets/meetnagadia/heart-disease</a>