

Capstone Two: Project Proposal

Heart Disease prediction using data science methods

Problem statement formation

Can heart disease be predicted with a 90% accuracy given specific symptoms on a given patient?

Context

Heart disease is a major issue for a wide variety of people around the world. The heart is one of the major organs in a body and a big issue with medical practices regarding the heart is that treatment needs to be started as fast as possible. If a model can predict whether a patient has heart disease without the doctor ordering many different kinds of test, it will be easier for patients to be treated properly.

Criteria for success

The project's scope is to use data science techniques to achieve 90% accuracy in predicting if the patient would have heart disease

Scope of solution space

Predicts whether patient has heart disease

Constraints

Limited medical data
Patient data is generally private

Stakeholders

Hospitals
Insurance companies

Data sources

<https://www.kaggle.com/datasets/fedesoriano/heart-failure-prediction>