Heart Disease Predictions using Supervised Learning

About Peterside Hospital

Peterside Hospital is a private hospital located in Lagos, Nigeria. It was founded in 2000 by Dr. Efemena Ikpro, a renowned Nigerian physician. The hospital provides a wide range of medical services, including general medicine, surgery, paediatrics, obstetrics and gynaecology, cardiology, neurology, and oncology.

Peterside Hospital is known for its state-of-the-art facilities, modern equipment, and highly skilled medical professionals. The hospital has a team of over 300 medical personnel, including doctors, nurses, and other healthcare professionals, who are trained locally and internationally.

The hospital has several specialized clinics, including a diabetes clinic, a fertility clinic, a heart clinic, and a cancer clinic. It also offers services such as health check-ups, laboratory tests, and imaging services.

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Objective:

You have been hired as a Data Scientist to build a machine-learning model that can predict the likelihood of a person having a heart disease based on the given features.

Data:

The heart CSV dataset contains 303 records and 14 columns, including the target variable. The features include age, sex, chest pain type (cp), resting blood pressure (trestbps), serum cholesterol (chol), fasting blood sugar (fbs), resting electrocardiographic results (restecg), maximum heart rate achieved (thalach), exercise-induced angina (exang), ST depression induced by exercise relative to rest (oldpeak), the slope of the peak exercise ST segment (slope), number of major vessels colored by flourosopy (ca), and thalassemia (thal).