Capstone Project: Classification Heart Disease

Capstone Project

Classification

- Data source: Heart Failure Prediction Dataset | Kaggle
- 918 observations
- Target:
 - Predict HeartDisease
 - **0**/1
- 11 features



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Features

Name	Properties
Independent Features	
■ Age:	age of the patient [years]
■ Sex:	sex of the patient [M: Male, F: Female]
ChestPainType:	chest pain type [TA: Typical Angina, ATA: Atypical Angina, NAP: Non-Anginal Pain, ASY: Asymptomatic]
RestingBP:	resting blood pressure [mm Hg]
Cholesterol:	serum cholesterol [mm/dl]
FastingBS:	fasting blood sugar [1: if FastingBS > 120 mg/dl, 0: otherwise]
RestingECG:	resting electrocardiogram results [Normal: Normal, ST: having ST-T wave abnormality (T wave inversions an
	d/or ST elevation or depression of > 0.05 mV), LVH: showing probable or definite left ventricular
	hypertrophy by Estes' criteria]
MaxHR:	maximum heart rate achieved [Numeric value between 60 and 202]
ExerciseAngina:	exercise-induced angina [Y: Yes, N: No]
Oldpeak:	oldpeak = ST [Numeric value measured in depression]
ST_Slope:	the slope of the peak exercise ST segment [Up: upsloping, Flat: flat, Down: downsloping]

Target

HeartDisease: output class [1: heart disease, 0: Normal]

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Steps

Categorical Variable Treatment

Data Prep

Modeling

Model Evaluation

Find a way to encode all categories

Separate dependent/independent, data splitting,

...

Check out different models

confusion matrix, ROC curve