Heart Failure Prediction

**Legend of 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 and/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]

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

**Feature Analysis:**

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**Models prediction:**

**Feature selection:**

**Impact of test size:**

**Best features:**

ני מעונין מאד להבין את האתגרים שהיו לכם במשך הפרוייקט, ואיך התגברתם עליהם. איזה טכניקות עבדו טוב, איזה מהם לא עבדו בכלל, ולמה לדעתכם אלה הצליחו יותר ואלה פחות?

**Challenges:**

**Overfitting -**

**Inconsistency with test features –**

**Feature selection worse than original –**