



Scientia
Epidemiologic & Analytic Solutions

Shape The Future

Meet Awesome Team



Nuri İyibaşlar



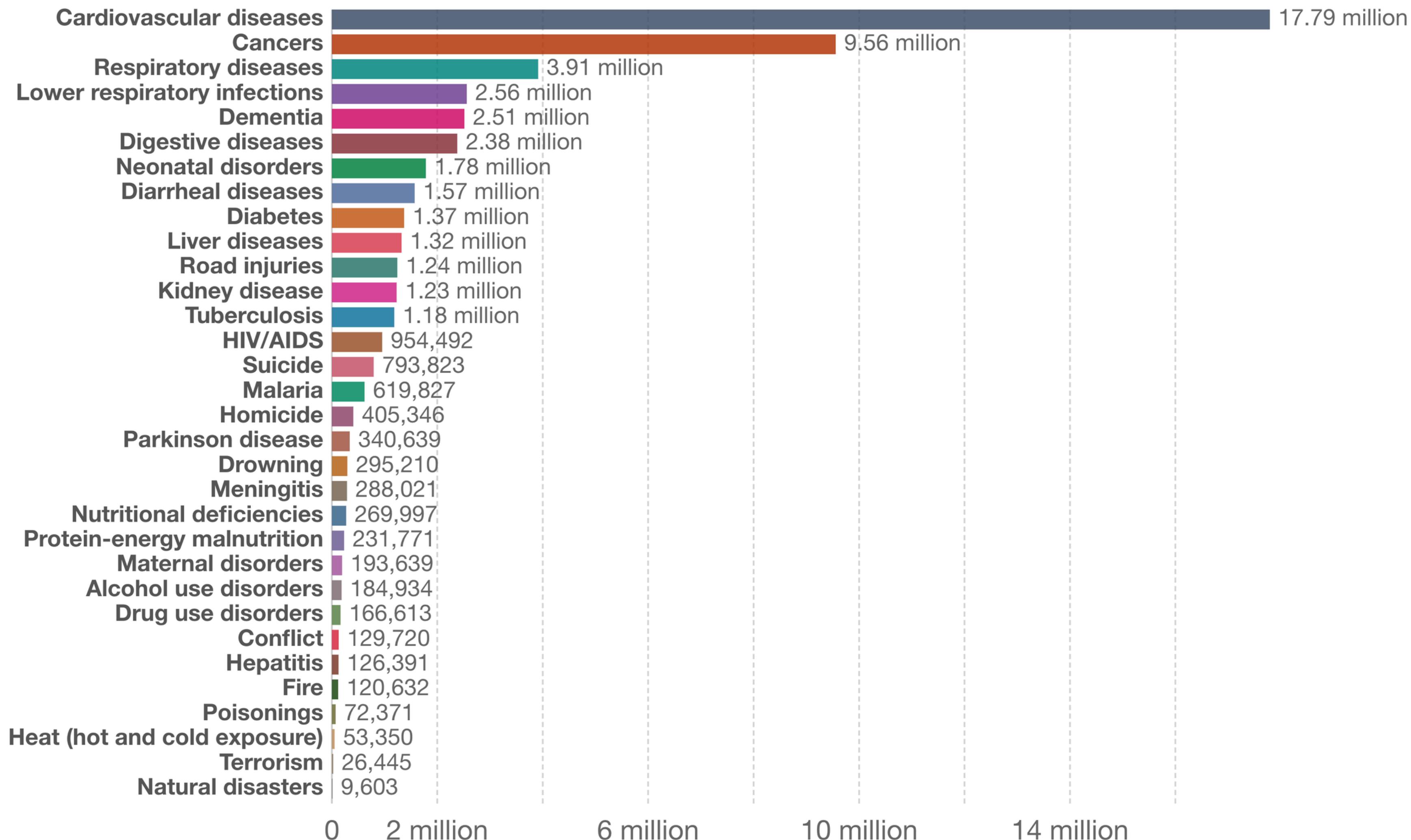
Tuğçe Selin

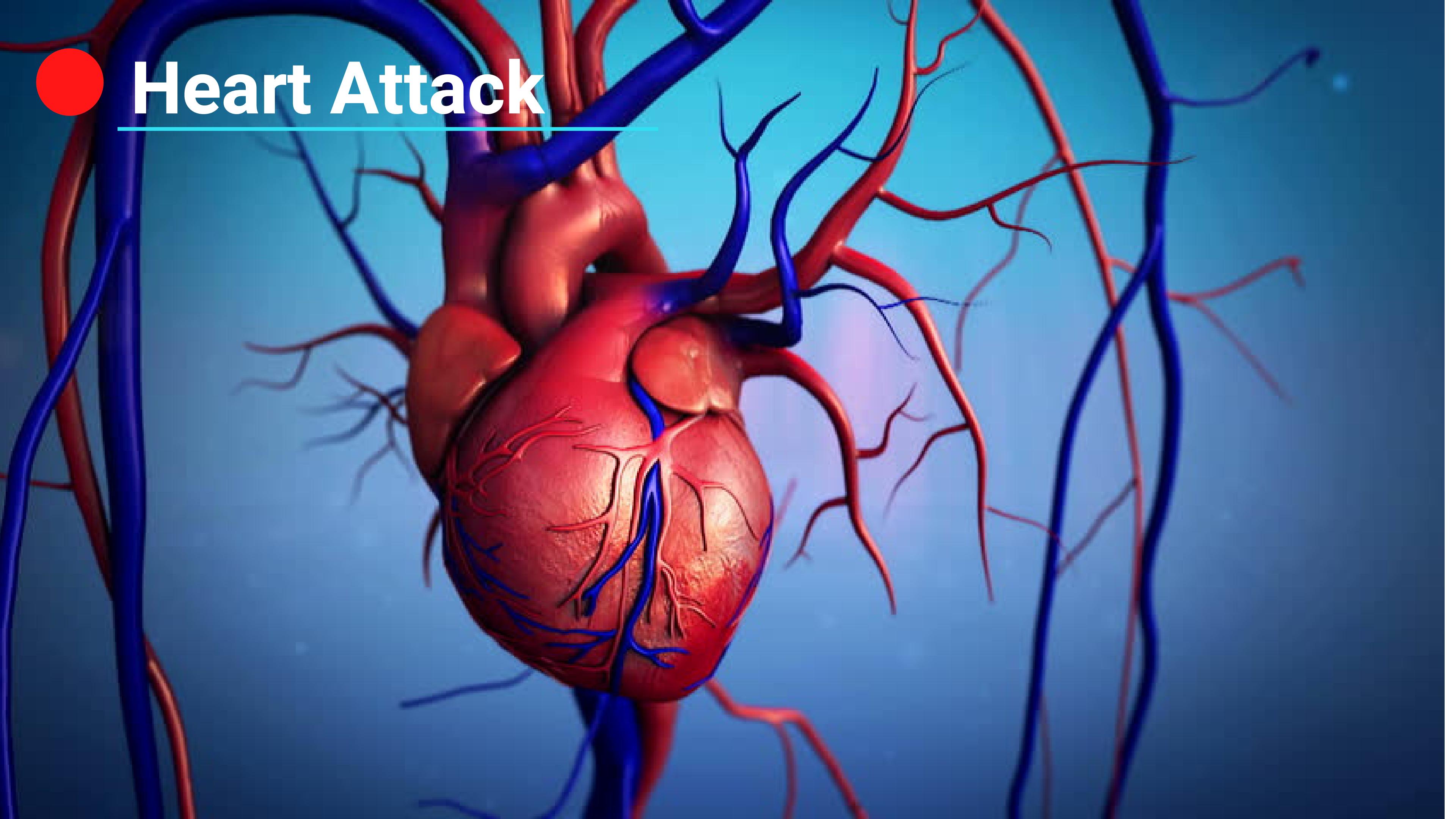


Uygar Talu



Ayça Begüm

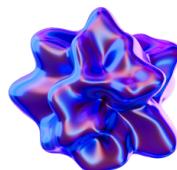


A detailed anatomical illustration of the human heart and its blood supply. The heart is shown in a slightly tilted position, with its four chambers visible. A complex network of red and blue vessels, representing the arterial and venous systems, branches out from the heart to supply it with oxygenated blood. The background is a gradient of blue and purple.

Heart Attack

Dataset Story

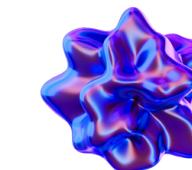
Variables	n_Valid	n_Missing	Type	Unique_observations	Description
age	303	0	int64	41	Age of the patient
sex	303	0	object	2	Sex of the patient
cp	303	0	object	4	Chest pain type
trtbps	303	0	int64	49	Resting blood pressure (in mm Hg on admission to the hospital)
chol	303	0	int64	152	Cholesterol measurement in mg/dl
fbs	303	0	object	2	(fasting blood sugar > 120 mg/dl)
restecg	303	0	object	3	Resting electrocardiographic results
thalachh	303	0	int64	91	Maximum heart rate achieved
exng	303	0	object	2	Exercise induced angina
oldpeak	303	0	float64	40	ST depression induced by exercise relative to rest
slp	303	0	object	3	The slope of the peak exercise ST segment
caa	303	0	int64	5	Number of major vessels (0-3) colored by flourosopy
thall	303	0	object	3	Thalassemia
output	303	0	object	2	Diagnosis of heart disease (angiographic disease status)



Gözlem sayısı -> 303

Değişken Sayısı -> 14

Kategorik Değişken Sayısı -> 9



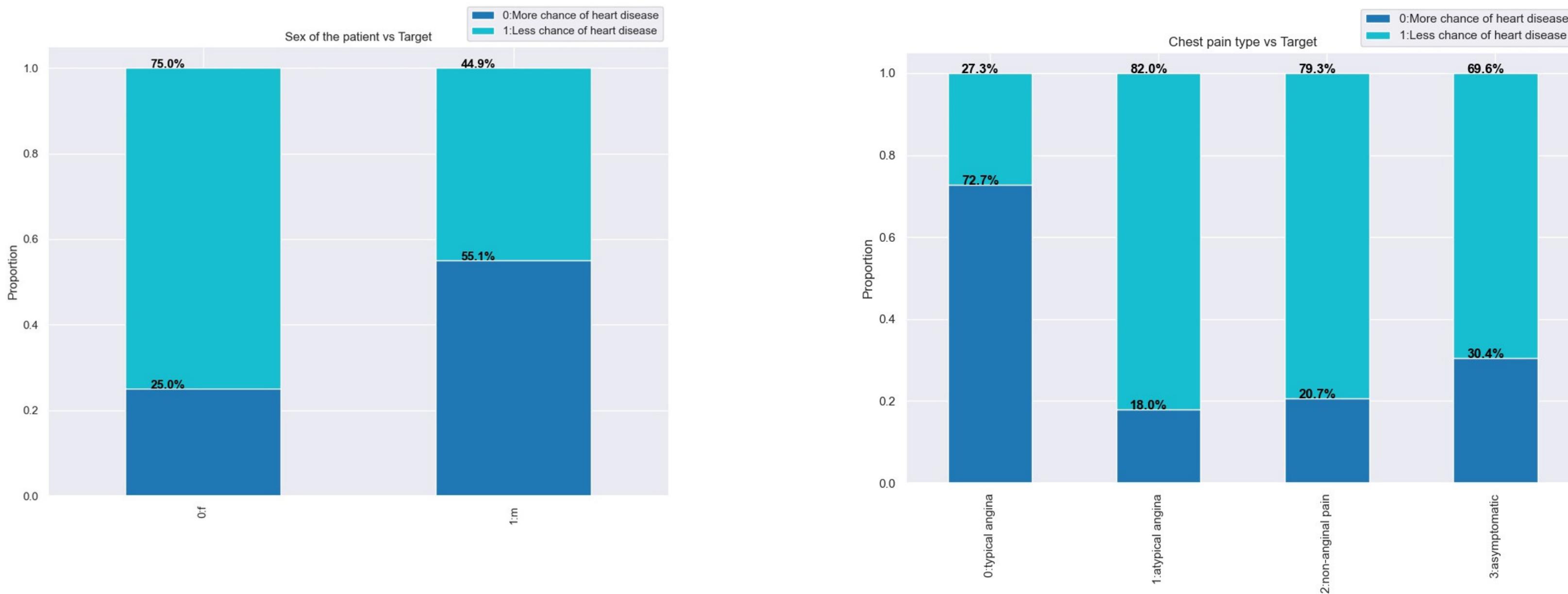
Sayısal Değişken Sayısı -> 5

Üretilen Değişken Sayısı -> 4

Eksik Gözlem -> 0

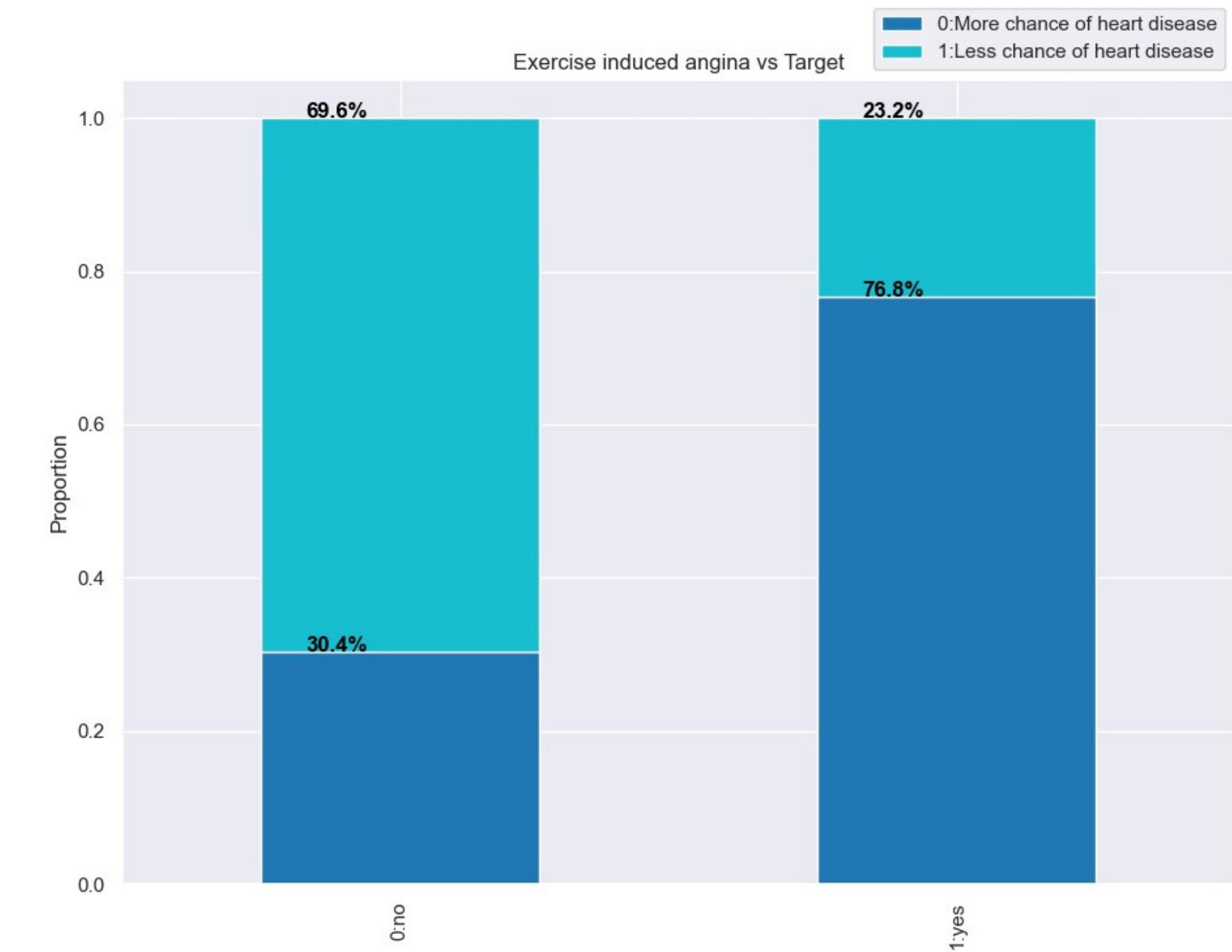
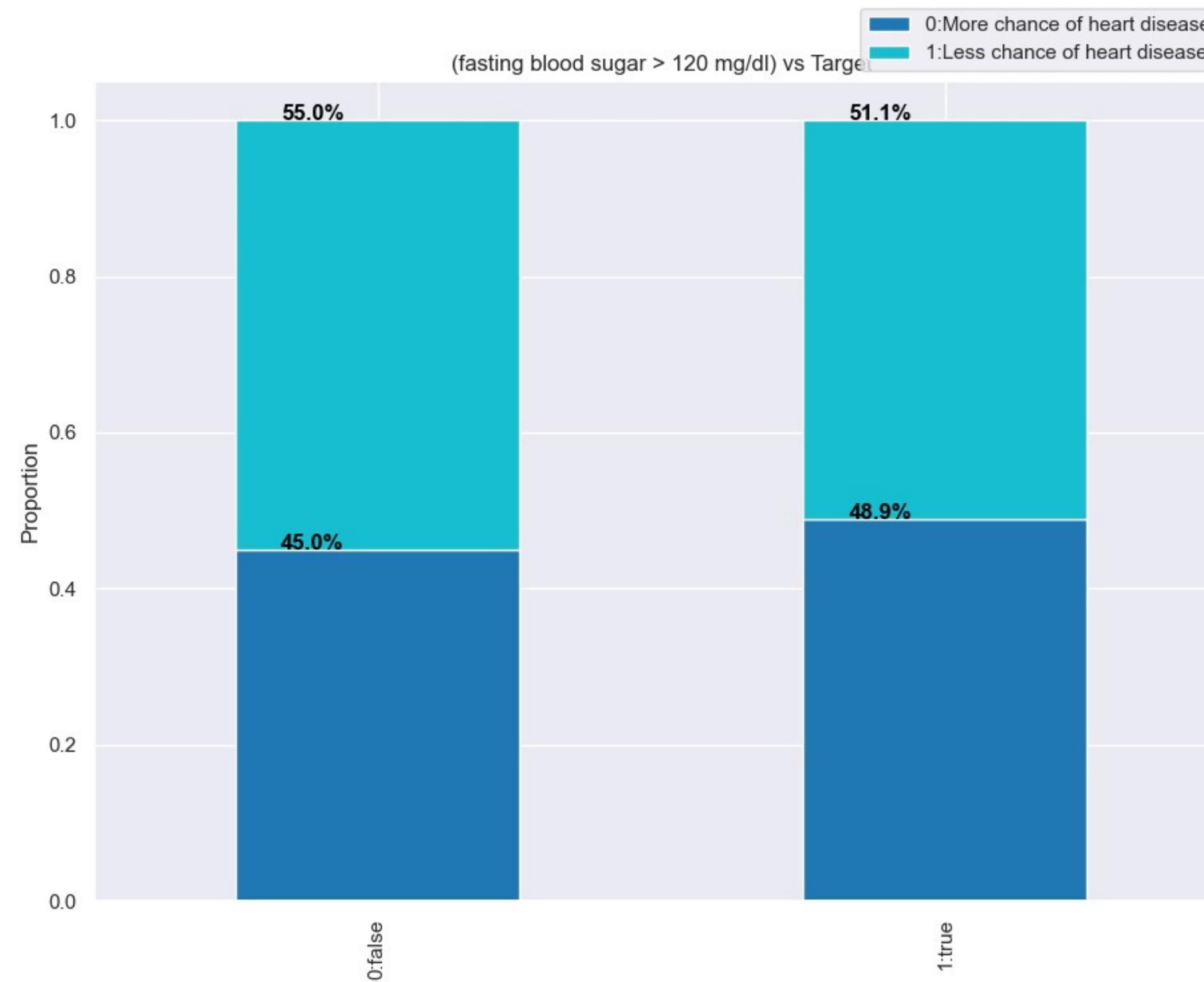
Data PreProcess - Feature Engineering

Mean Of The Variables According To Target



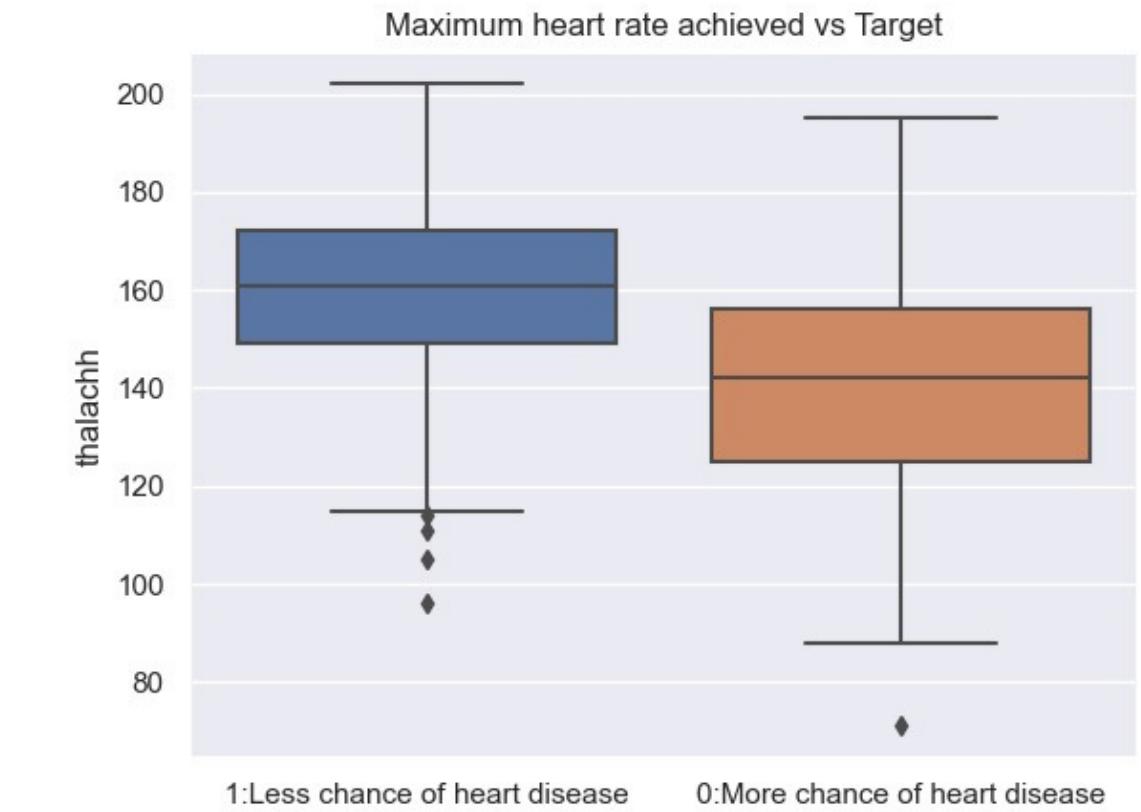
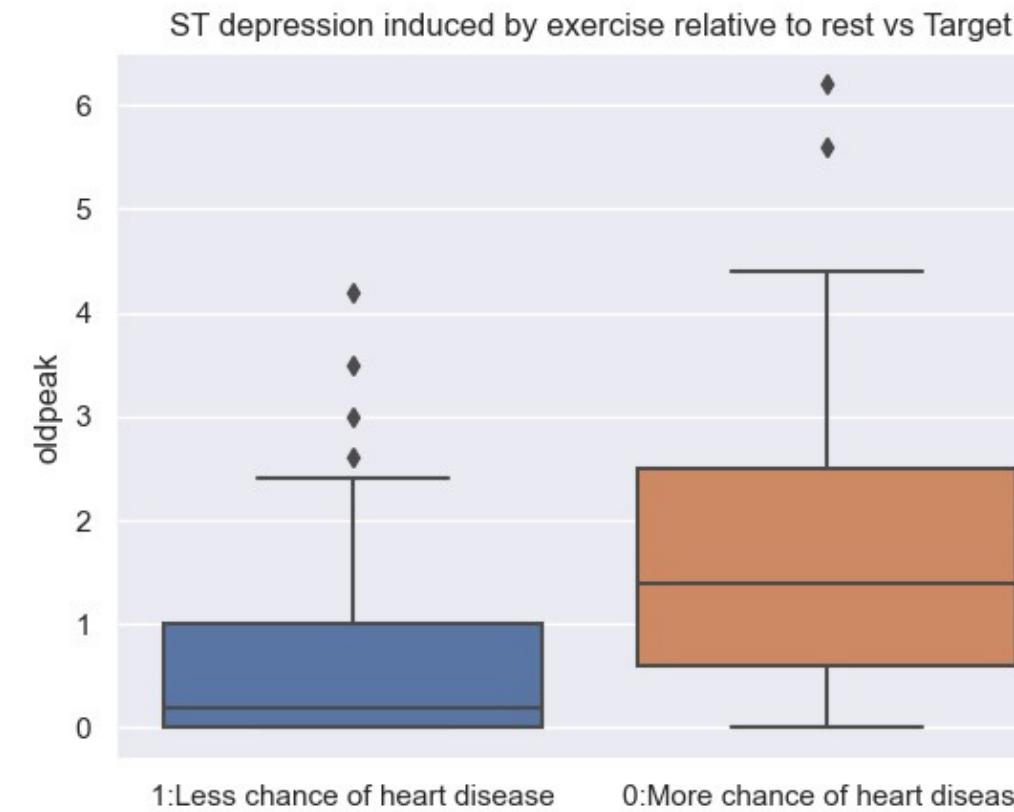
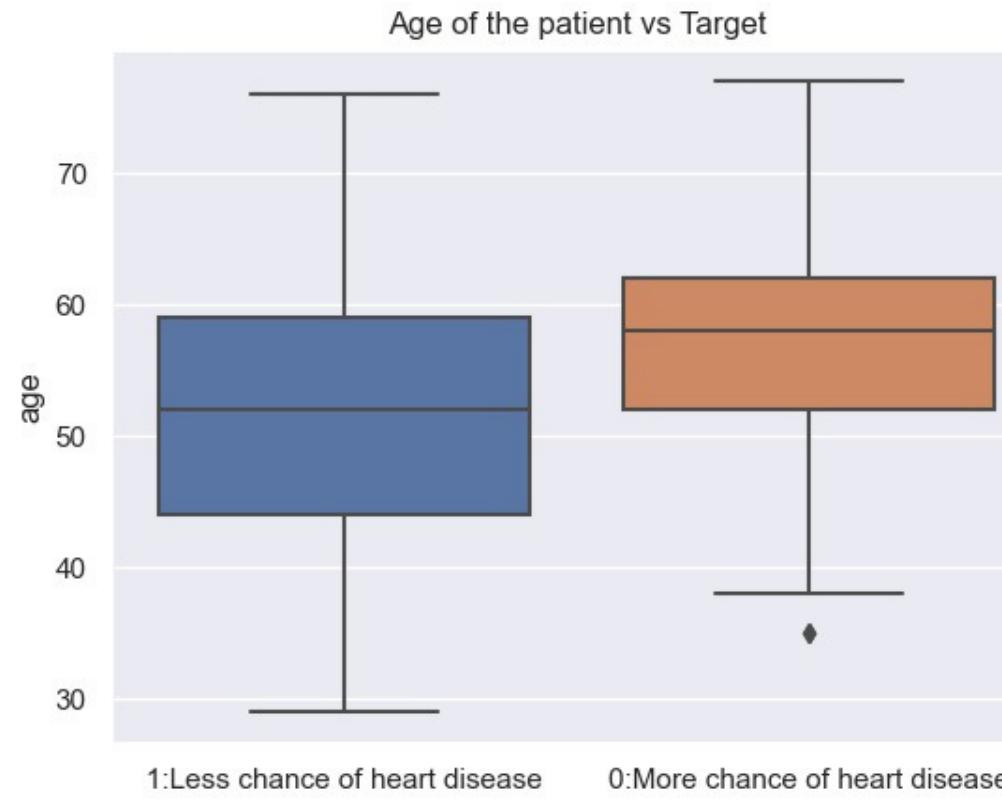
Data PreProcess - Feature Engineering

Mean Of The Variables According To Target

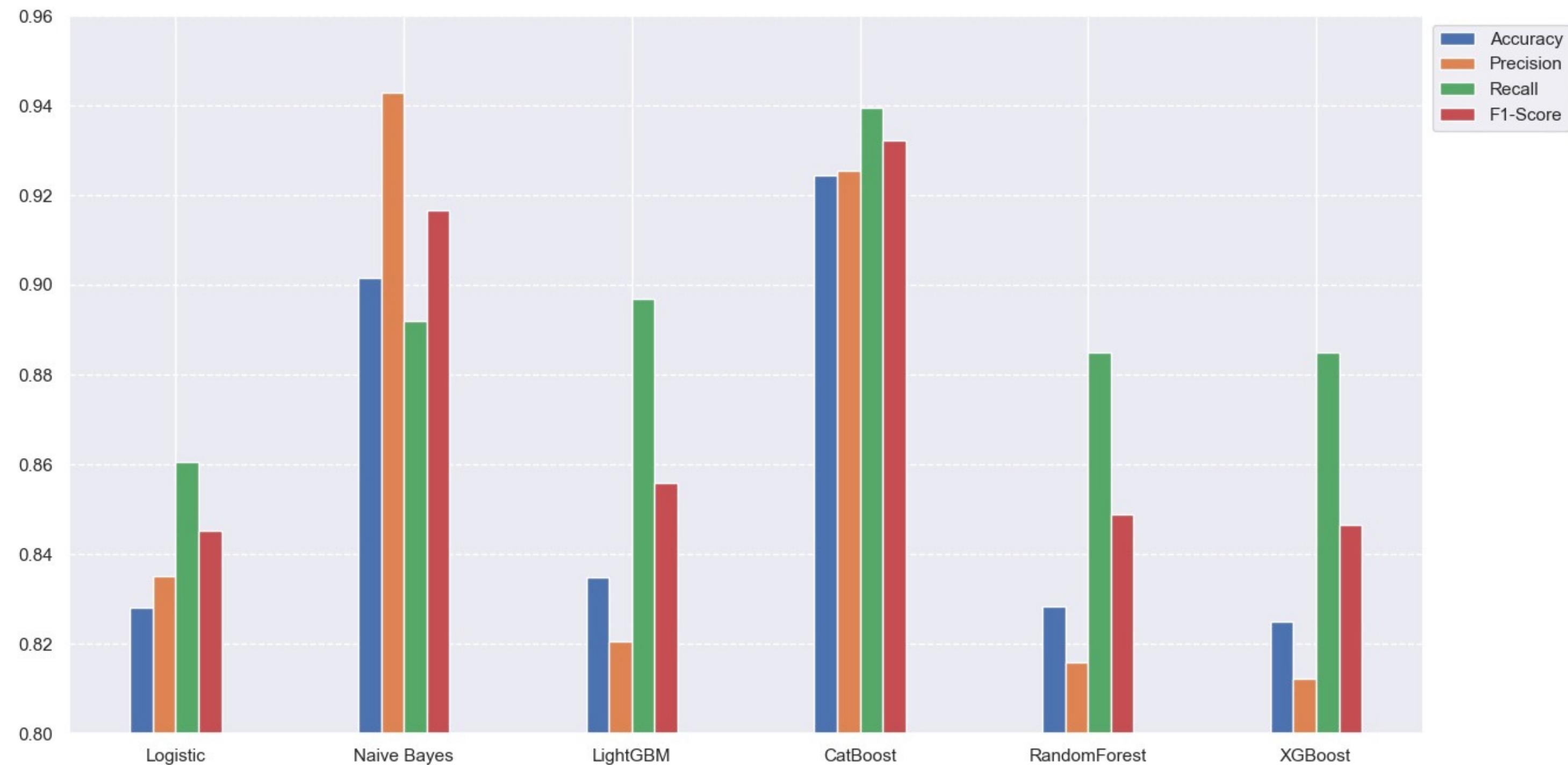


Data PreProcess - Feature Engineering

Mean Of The Variables According To Target



COMPARISON OF MACHINE LEARNING MODELS

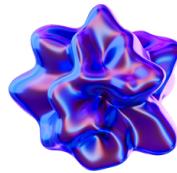


5K- Folds Cross Validation of Models

Lung Cancer



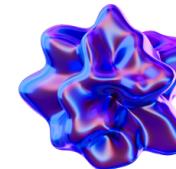
Dataset Story



Gözlem sayısı -> 306

Değişken Sayısı -> 16

Kategorik Değişken Sayısı -> 15

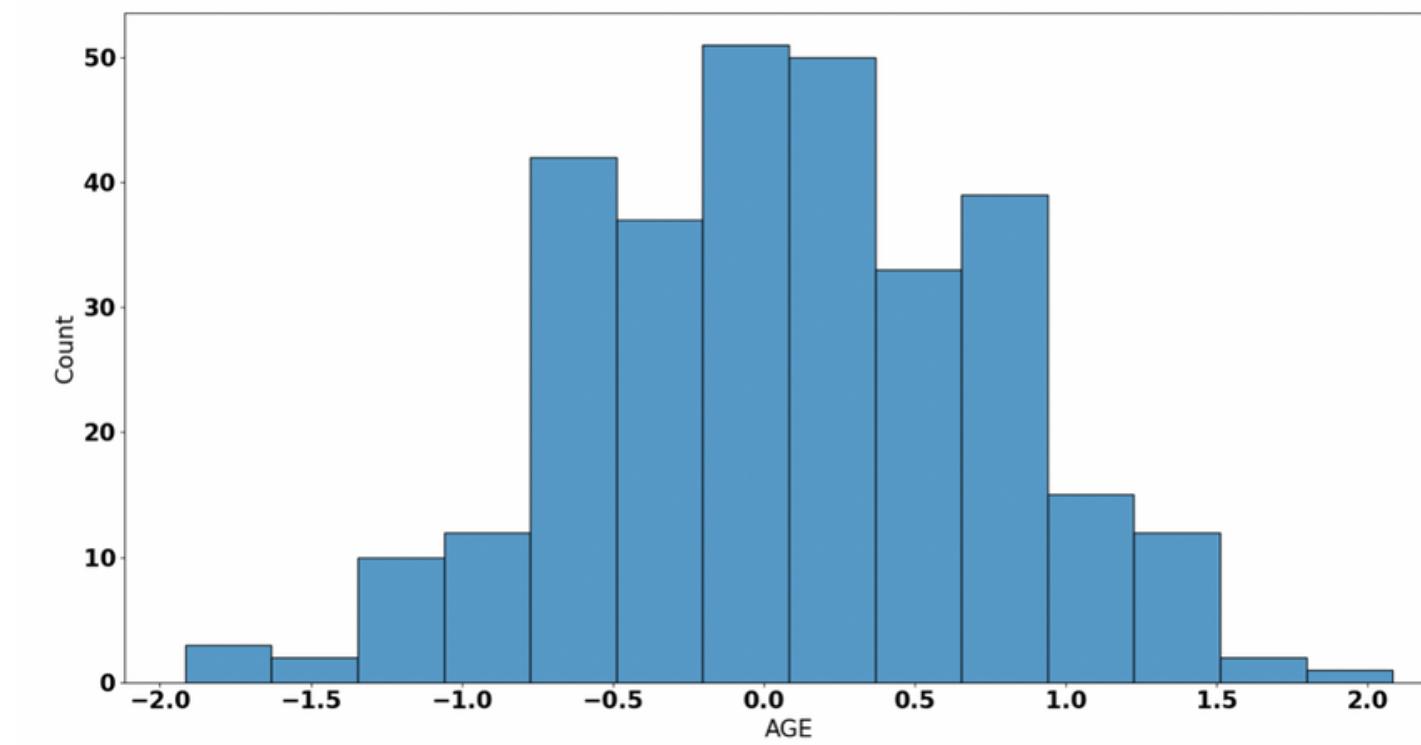
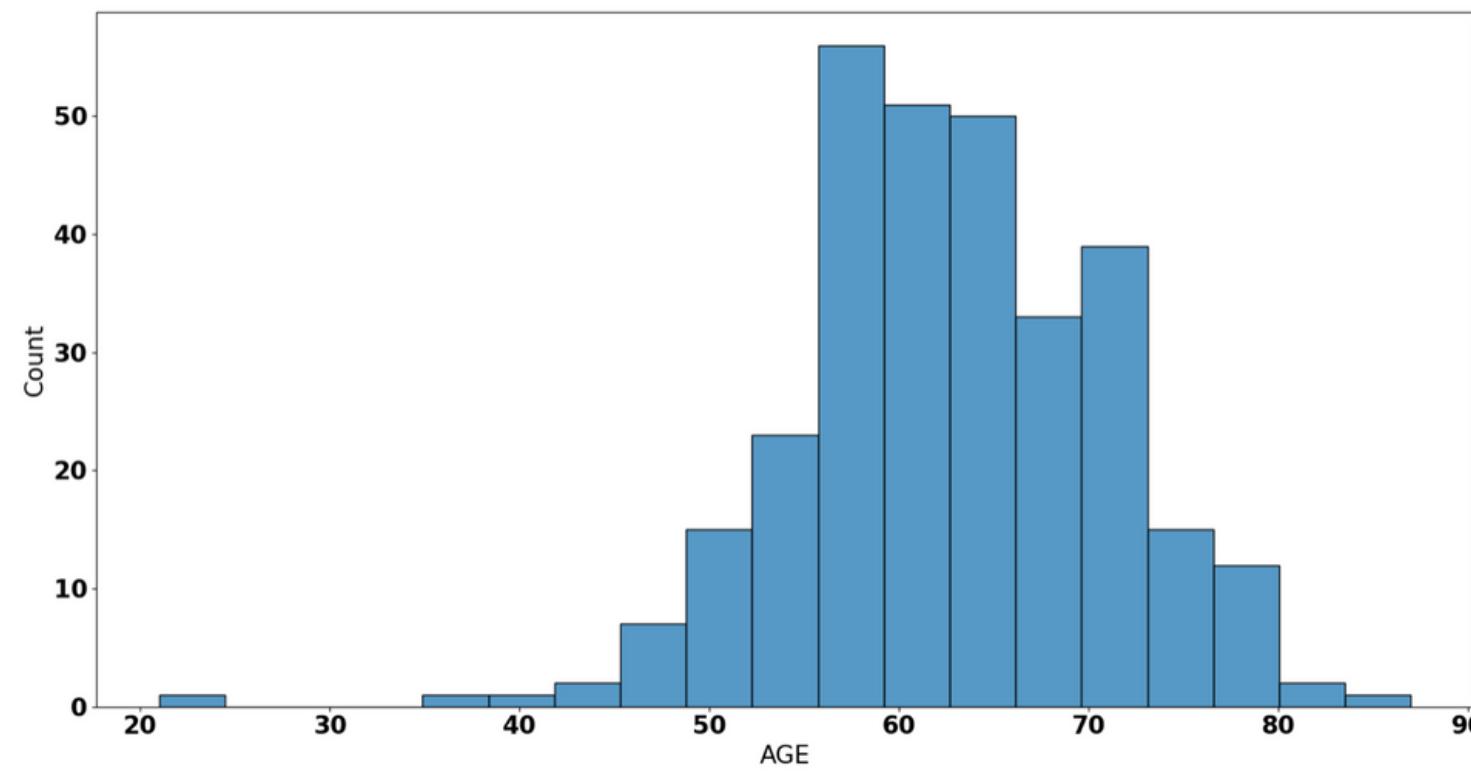


Sayısal Değişken Sayısı -> 1

Üretilen Değişken Sayısı -> 4

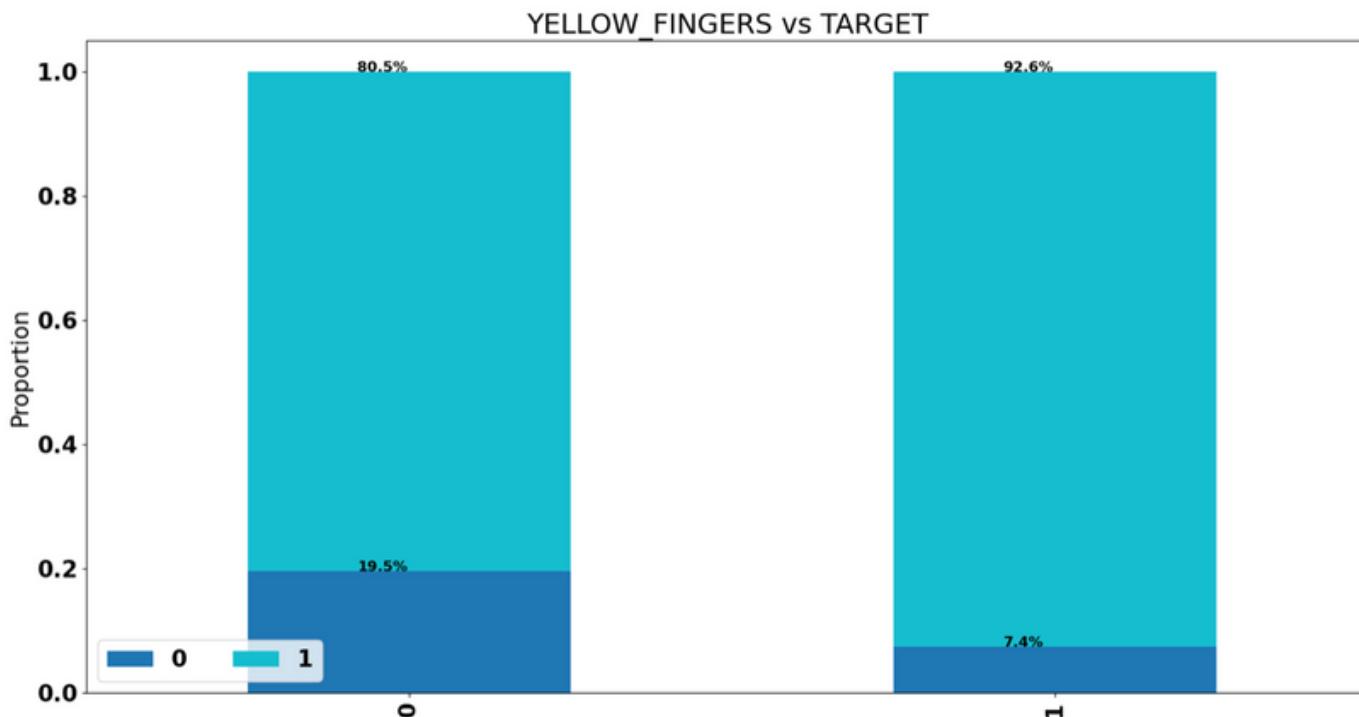
Eksik Gözlem -> 0

Data PreProcessing - Age Scaling



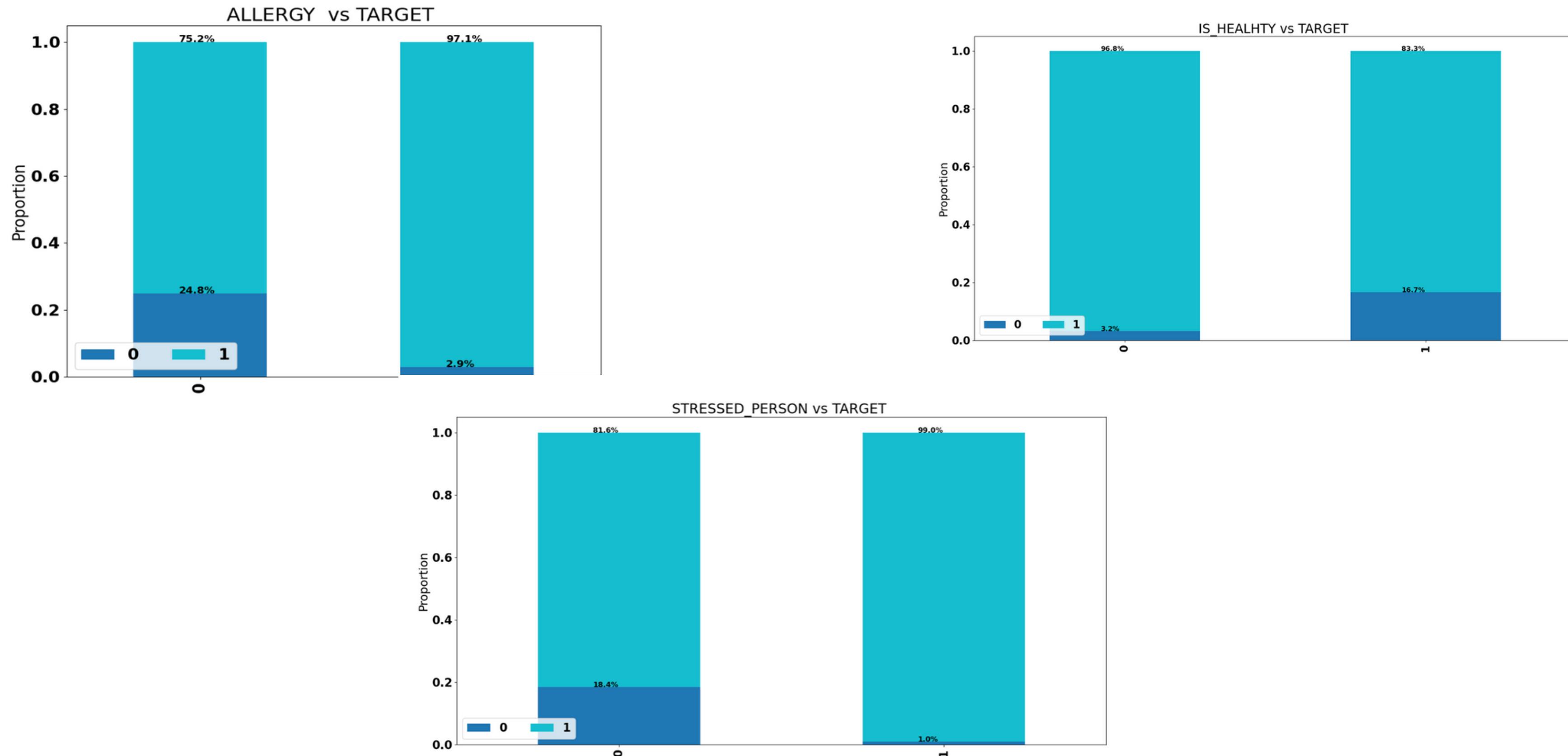
Data PreProcess - Feature Engineering

Mean Of The Variables According To Target



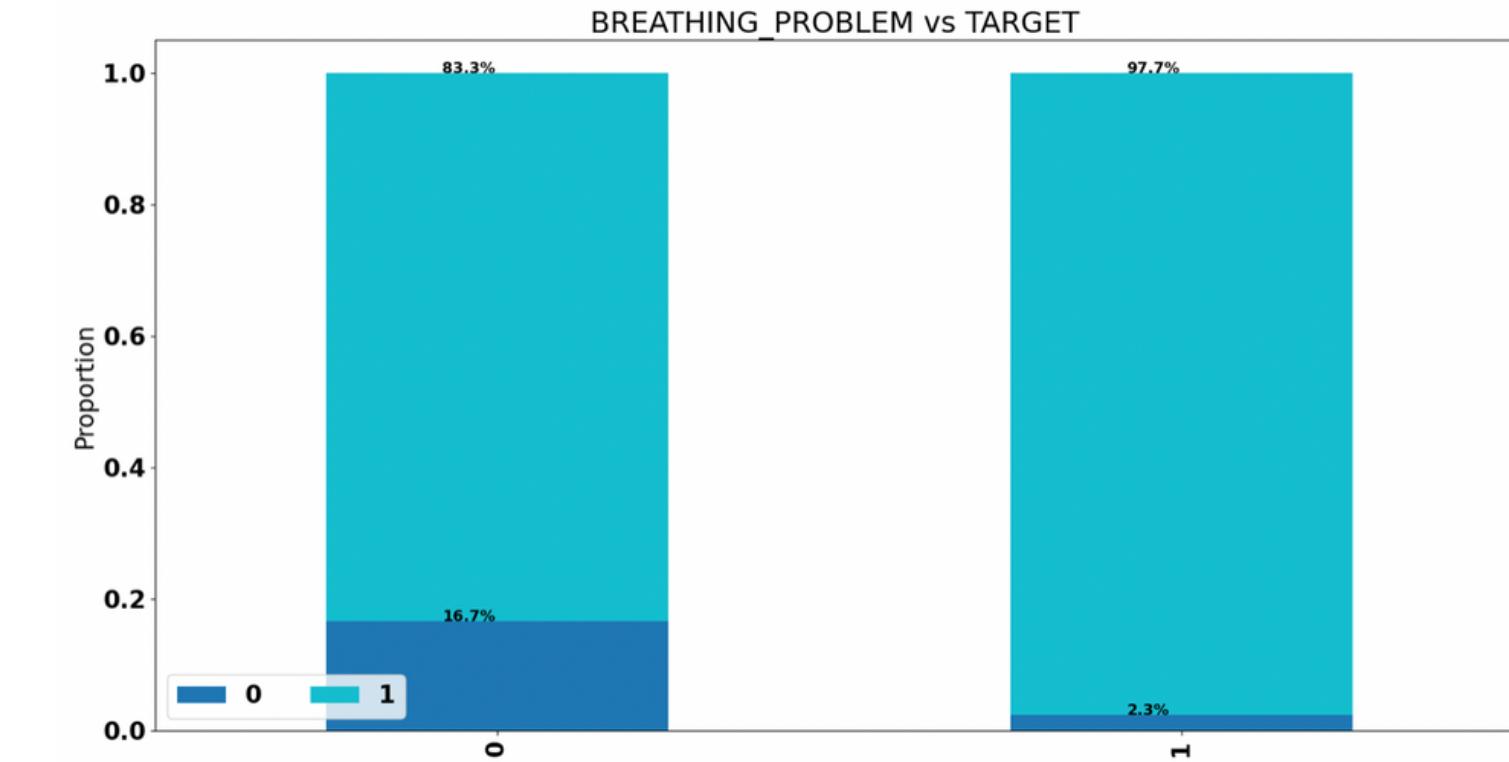
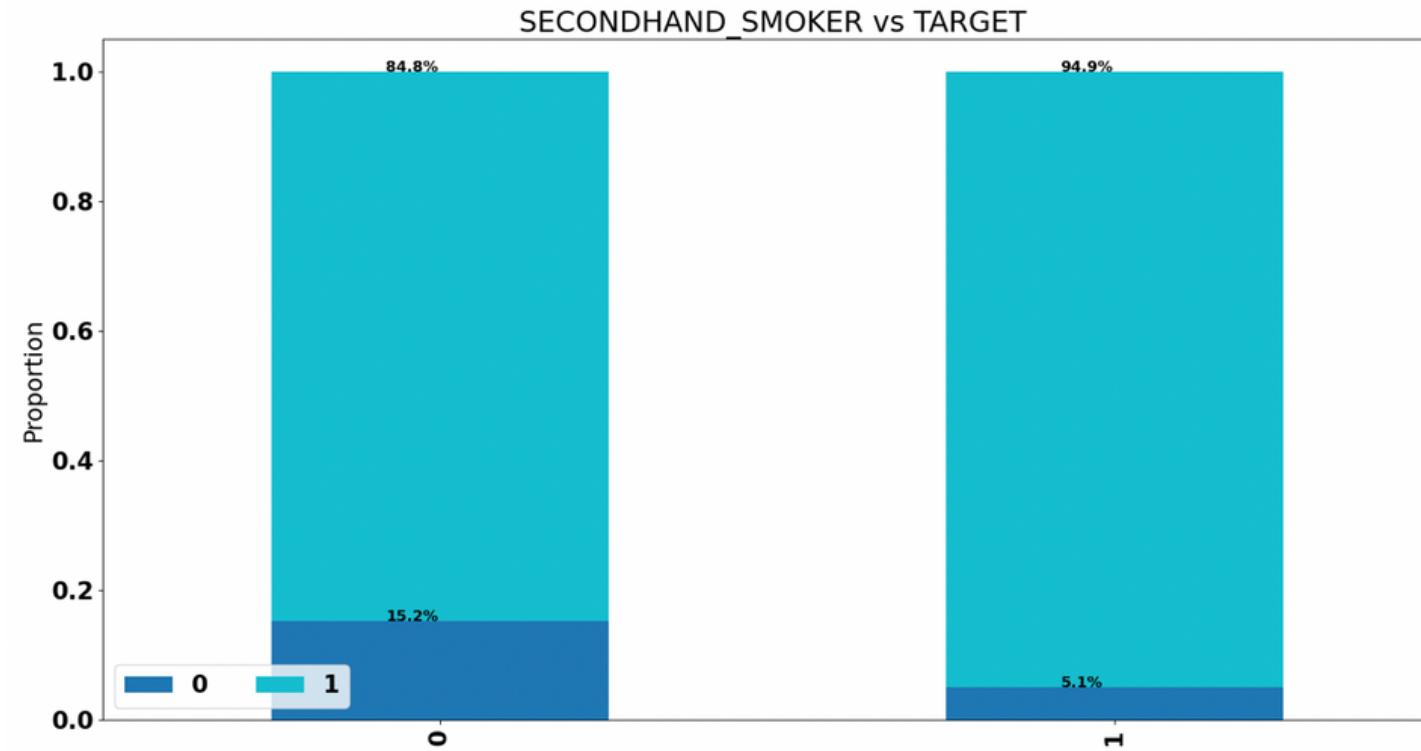
Data PreProcess - Feature Engineering

Mean Of The Variables According To Target



Data PreProcess - Feature Engineering

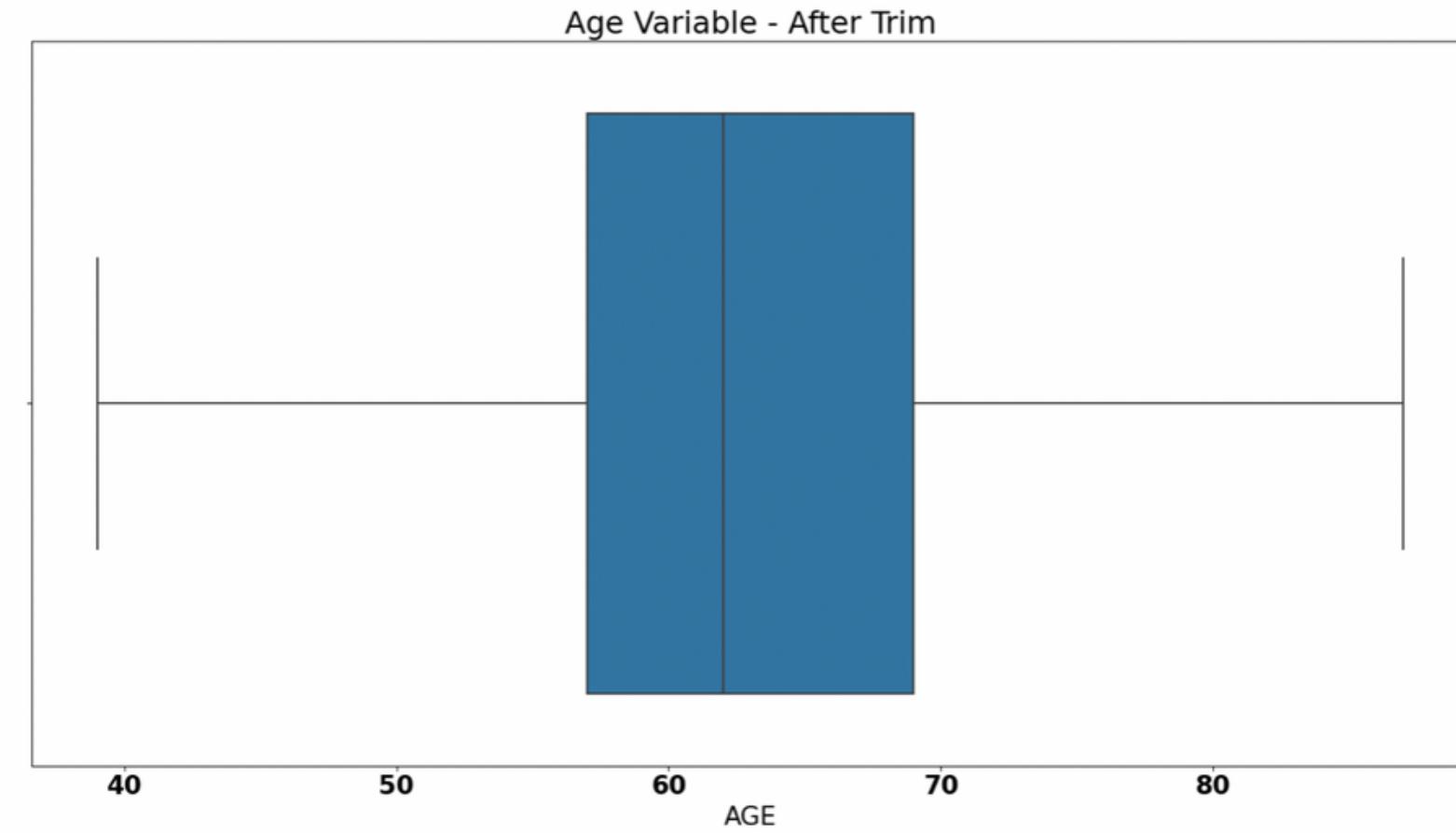
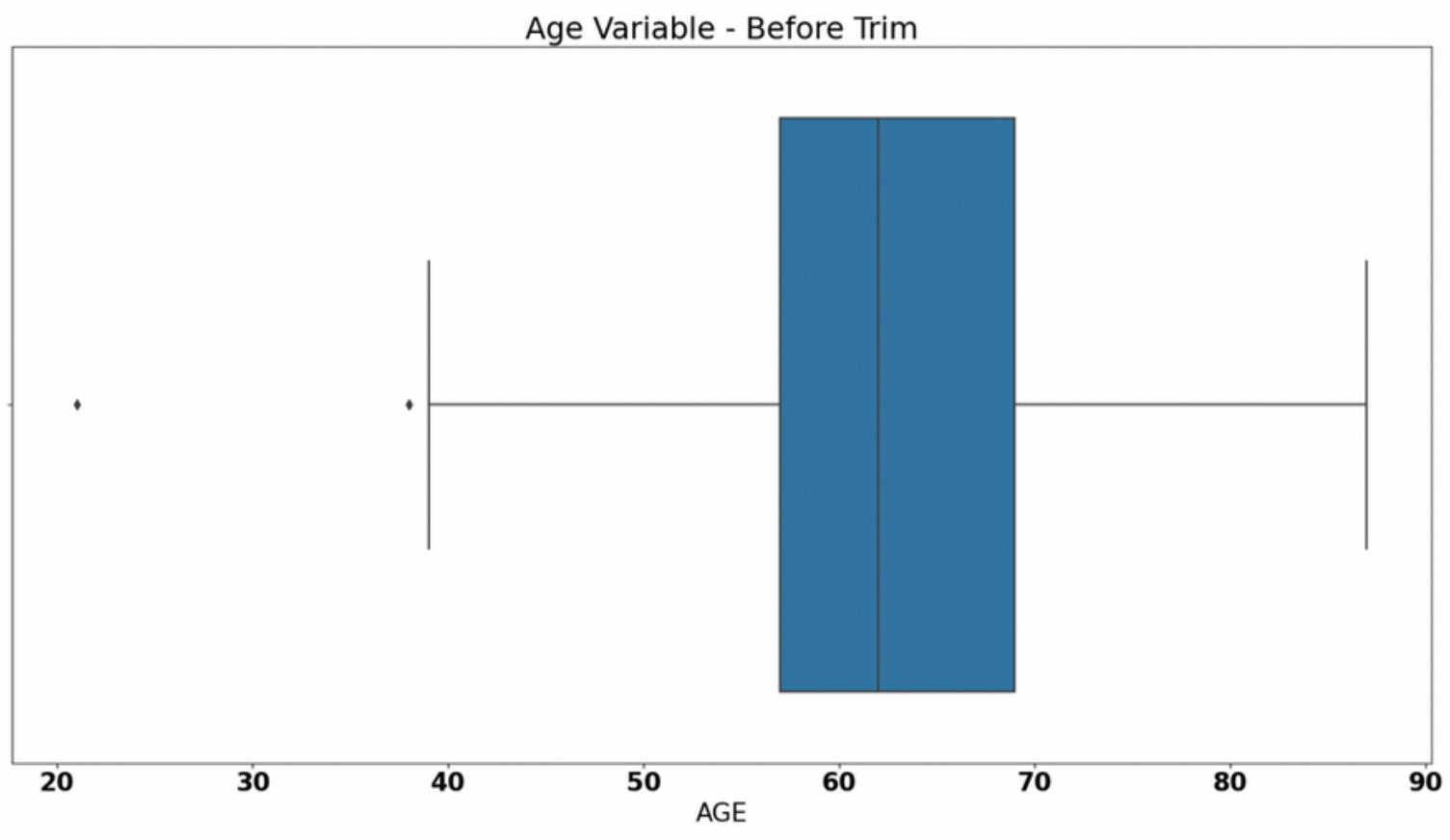
Mean Of The Variables According To Target



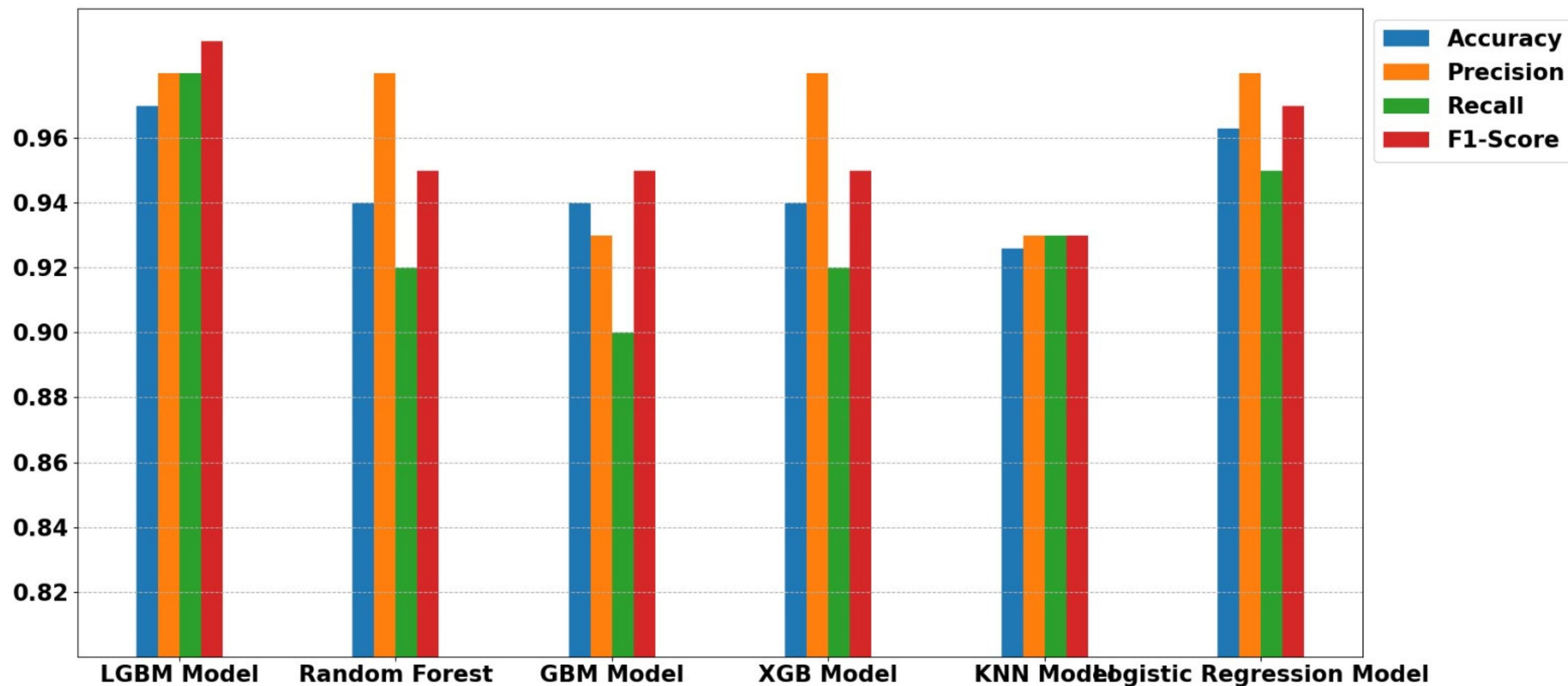
Test Stat = 4.3254, p-value = 0.0000
Test Stat = -3.2633, p-value = 0.0011

Test Stat = 3.4205, p-value = 0.0006
Test Stat = 2.3447, p-value = 0.0190

Data PreProcess - Feature Engineering



COMPARISON OF MACHINE LEARNING MODELS





Thank You For Your Attention

