

## Wireframe Document

### HEART DISEASE DIAGNOSTIC ANALYSIS



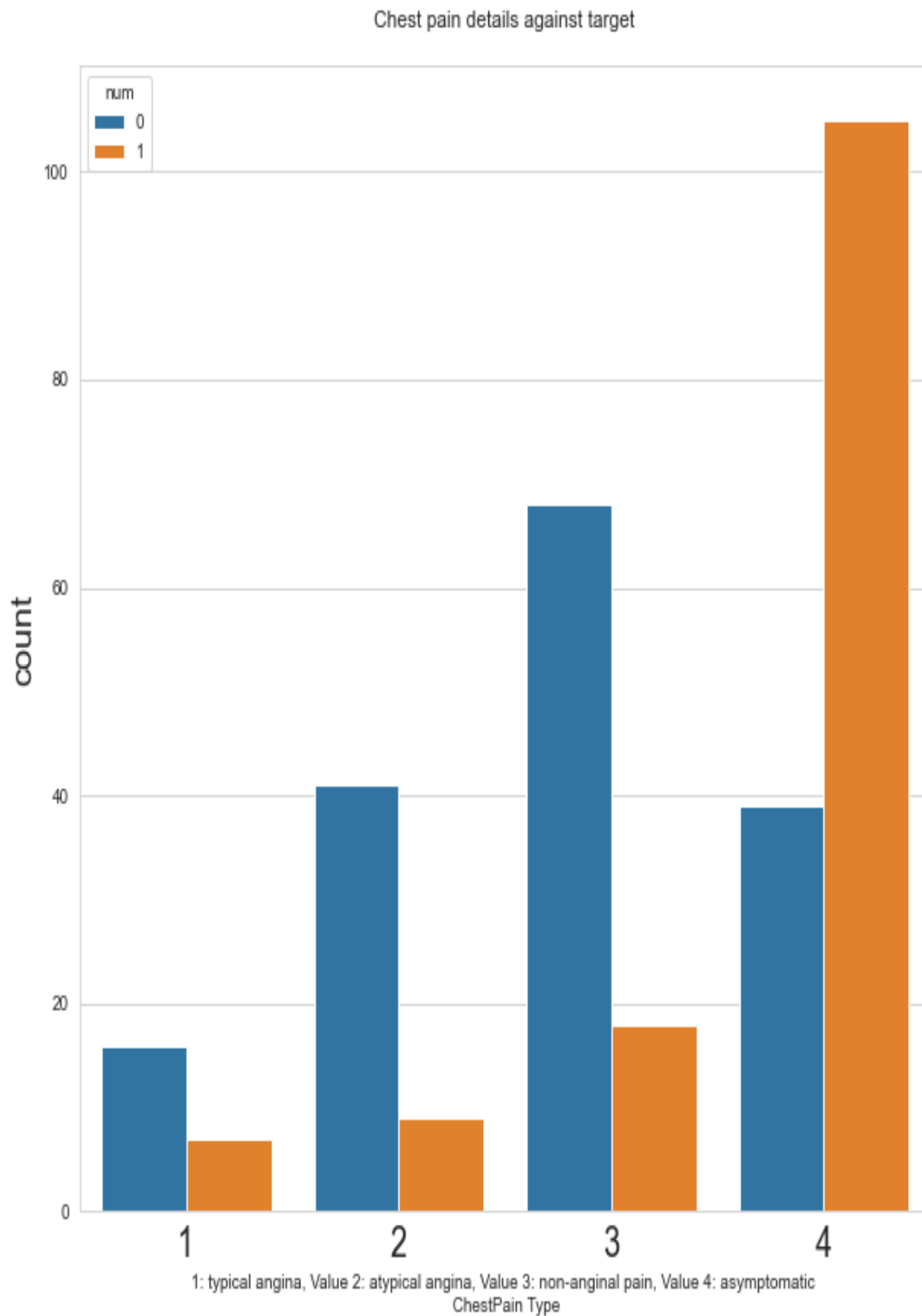
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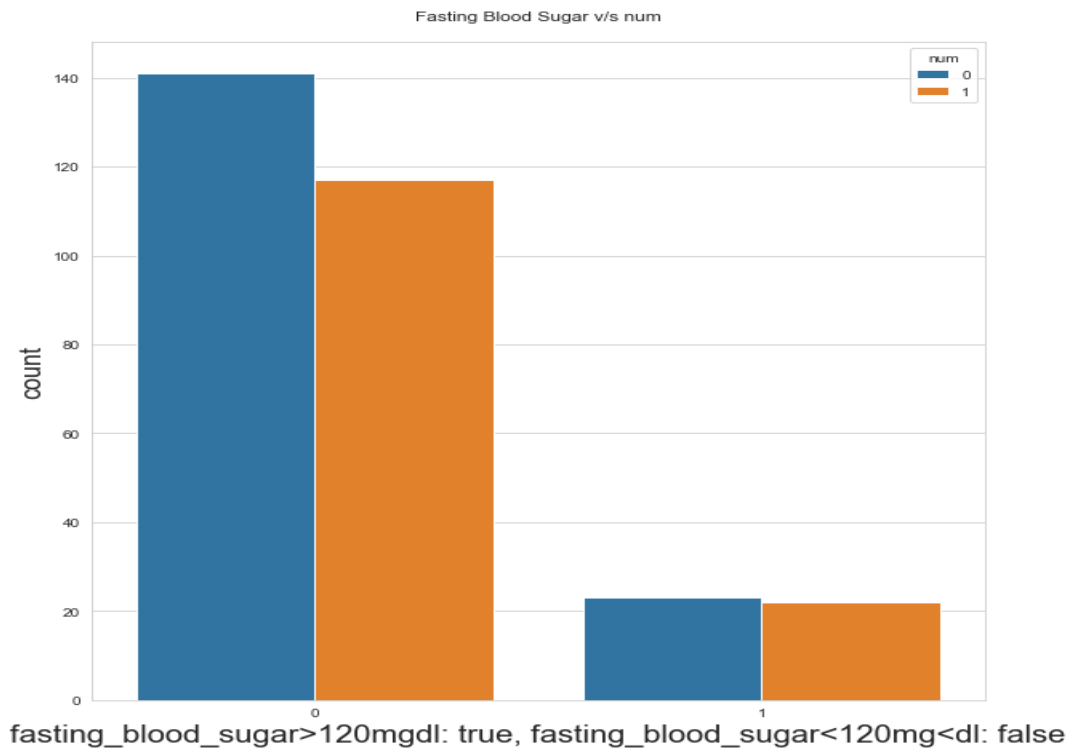
Somay

## We Perform EDA (Exploratory Data Analysis) on Jupyter Notebook.

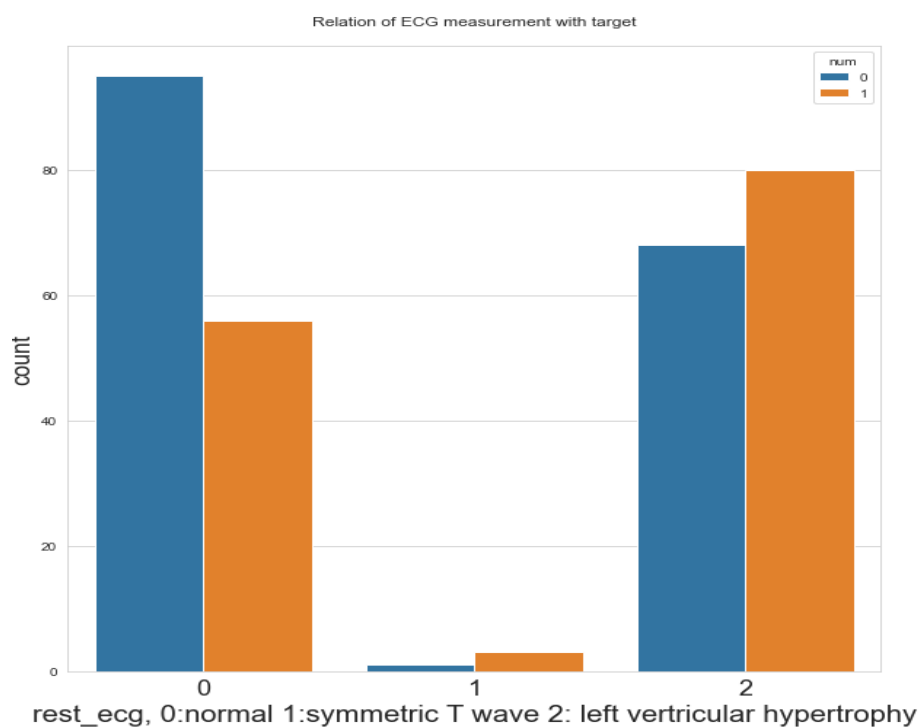
### 1. Analyses the between chest pain and target data columns



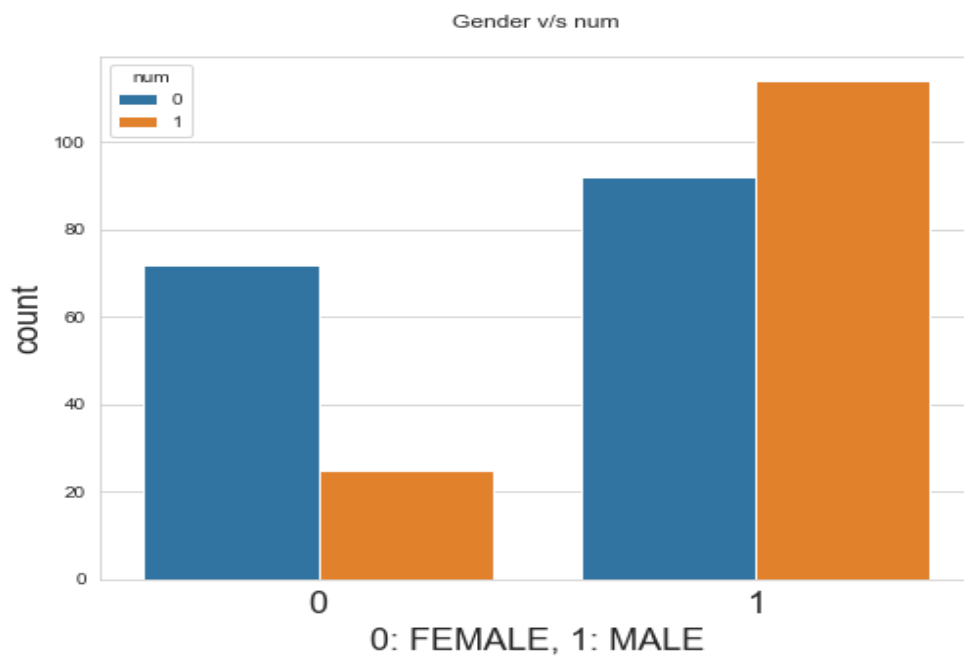
## 2. Analyses the between fasting blood sugar and target data columns.



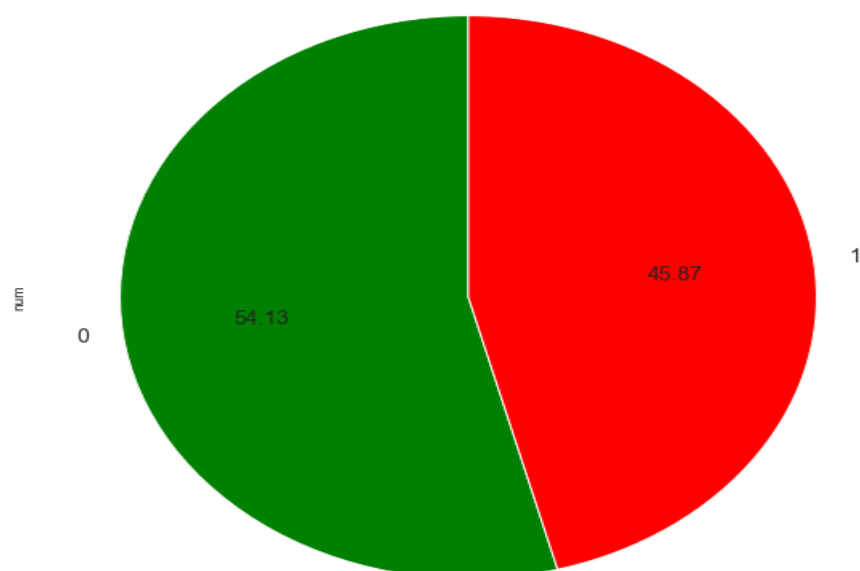
## 3. Analyses the between ECG and target data columns



#### 4. Analyses the between gender and target data columns



#### 5. Analyses the affected or unaffected person



**45.87% Of the patients detected with heart disease.**

## 6. Bivariate Analysis

	age	sex	cp	trestbps	chol	fbs	restecg	thalach	exang	oldpeak	slope	ca	thal	num
age	1.000000	-0.097542	0.104139	0.292061	0.200896	0.118530	0.148868	-0.393504	0.091661	0.206829	0.161770	0.085766	0.017545	0.223120
sex	-0.097542	1.000000	0.010084	-0.055920	-0.183610	0.047862	0.021647	-0.047598	0.146201	0.111505	0.037533	-0.079361	0.031518	0.276816
cp	0.104139	0.010084	1.000000	-0.039697	0.075559	-0.039975	0.067505	-0.334774	0.384060	0.201397	0.152050	0.019134	-0.028985	0.414446
trestbps	0.292061	-0.055920	-0.039697	1.000000	0.141127	0.166062	0.145531	-0.052293	0.052366	0.176209	0.109391	-0.013238	0.016442	0.144980
chol	0.200896	-0.183610	0.075559	0.141127	1.000000	0.011476	0.162468	-0.012357	0.077386	0.049307	-0.014385	0.071469	0.061090	0.103896
fbs	0.118530	0.047862	-0.039975	0.166062	0.011476	1.000000	0.069564	-0.008739	0.025665	0.011732	0.059894	-0.032997	-0.080552	0.025264
restecg	0.148868	0.021647	0.067505	0.145531	0.162468	0.069564	1.000000	-0.085908	0.084867	0.117436	0.133946	0.057077	-0.000807	0.169202
thalach	-0.393504	-0.047598	-0.334774	-0.052293	-0.012357	-0.008739	-0.085908	1.000000	-0.381879	-0.350351	-0.386733	-0.038742	0.050767	-0.417624
exang	0.091661	0.146201	0.384060	0.052366	0.077386	0.025665	0.084867	-0.381879	1.000000	0.299565	0.257748	0.018935	-0.030035	0.431894
oldpeak	0.206829	0.111505	0.201397	0.176209	0.049307	0.011732	0.117436	-0.350351	0.299565	1.000000	0.573853	0.093889	0.038652	0.430309
slope	0.161770	0.037533	0.152050	0.109391	-0.014385	0.059894	0.133946	-0.386733	0.257748	0.573853	1.000000	0.018934	0.013406	0.339213
ca	0.085766	-0.079361	0.019134	-0.013238	0.071469	-0.032997	0.057077	-0.038742	0.018935	0.093889	0.018934	1.000000	-0.009427	0.048491
thal	0.017545	0.031518	-0.028985	0.016442	0.061090	-0.080552	-0.000807	0.050767	-0.030035	0.038652	0.013406	-0.009427	1.000000	-0.006624
num	0.223120	0.276816	0.414446	0.144980	0.103896	0.025264	0.169202	-0.417624	0.431894	0.430309	0.339213	0.048491	-0.006624	1.000000

## Conclusion:

1. Males have higher possibilities of getting heart condition than females.
2. Patients littered with heart condition are principally in age bracket of 55-65 years.
3. Higher cholesteric means that higher possibilities of heart condition. it plays a crucial role in determinant heart issues. With age cholesterol will increase and level 200- 350 mg/dl are of concern.
4. St\_depression >0.5 millimetre in electrocardiogram indicates abnormality. thus, the slope of the height exercise ST phase showing descent with st\_depression>0.5 millimetre has larger possibilities of heart condition
5. From target price we will say that our dataset is almost balanced with fifty-four% of patients having no heart condition and forty-six you look after patients having heart condition.
6. 45.87% Of the patients detected with heart disease.

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