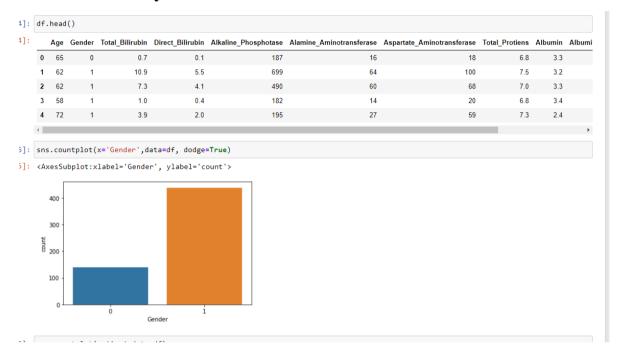
Team ID	PNT2022TMID52707
Project Name	Statistical Machine Learning Approaches to Liver Disease Prediction.

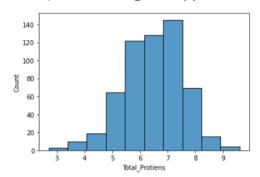
Exploratory Data Analysis

Uni –variate Analysis:



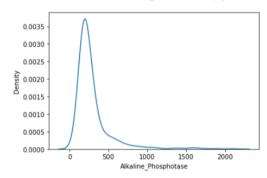
```
: sns.histplot(x='Total_Protiens',data=df,bins=10)
```

: <AxesSubplot:xlabel='Total_Protiens', ylabel='Count'>



: sns.kdeplot(x='Alkaline_Phosphotase', data=df)

: <AxesSubplot:xlabel='Alkaline_Phosphotase', ylabel='Density'>



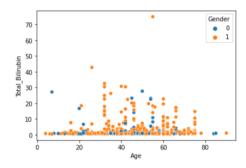
: sns.boxplot(x='Albumin_and_Globulin_Ratio',data=df)

Bi – variate Analysis:

Gender 0 1	Total_Bilirubin 0.7 10.9	Direct_Bilirubin 0.1 5.5	Alkaline_Phosphotase 187 699	Alamine_Aminotransferase 16 64	Aspartate_Aminotransferase 18 100	Total_Protiens 6.8 7.5	Albumin 3.3 3.2	Album
1	10.9	5.5	699	64	100	7.5	3.2	
							5.2	
1	7.3	4.1	490	60	68	7.0	3.3	
1	1.0	0.4	182	14	20	6.8	3.4	
1	3.9	2.0	195	27	59	7.3	2.4	
								+

: sns.scatterplot(x='Age',y='Total_Bilirubin',data=df,hue='Gender')

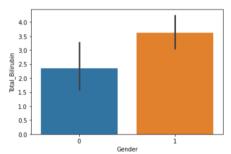
: <AxesSubplot:xlabel='Age', ylabel='Total_Bilirubin'>



: sns.barplot(x='Gender',y='Total_Bilirubin',data=df)

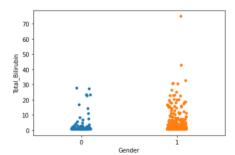
```
: sns.barplot(x='Gender',y='Total_Bilirubin',data=df)
```

: <AxesSubplot:xlabel='Gender', ylabel='Total_Bilirubin'>



: sns.stripplot(x='Gender',y='Total_Bilirubin',data=df)

: <AxesSubplot:xlabel='Gender', ylabel='Total_Bilirubin'>



Multi – variate Analysis:

