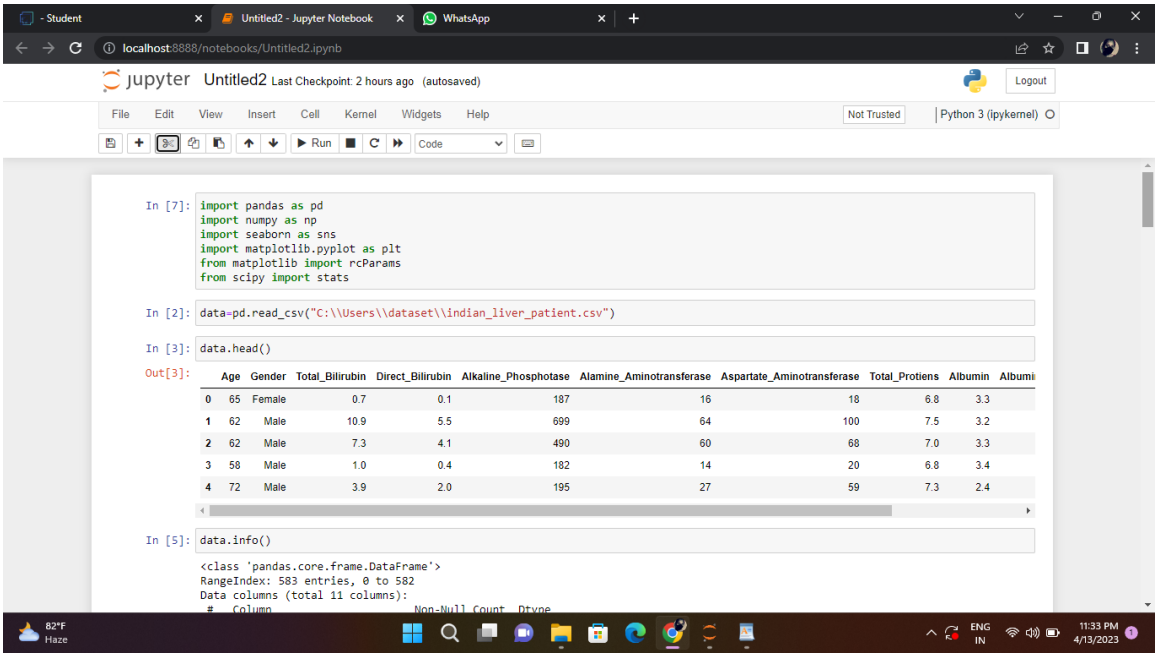
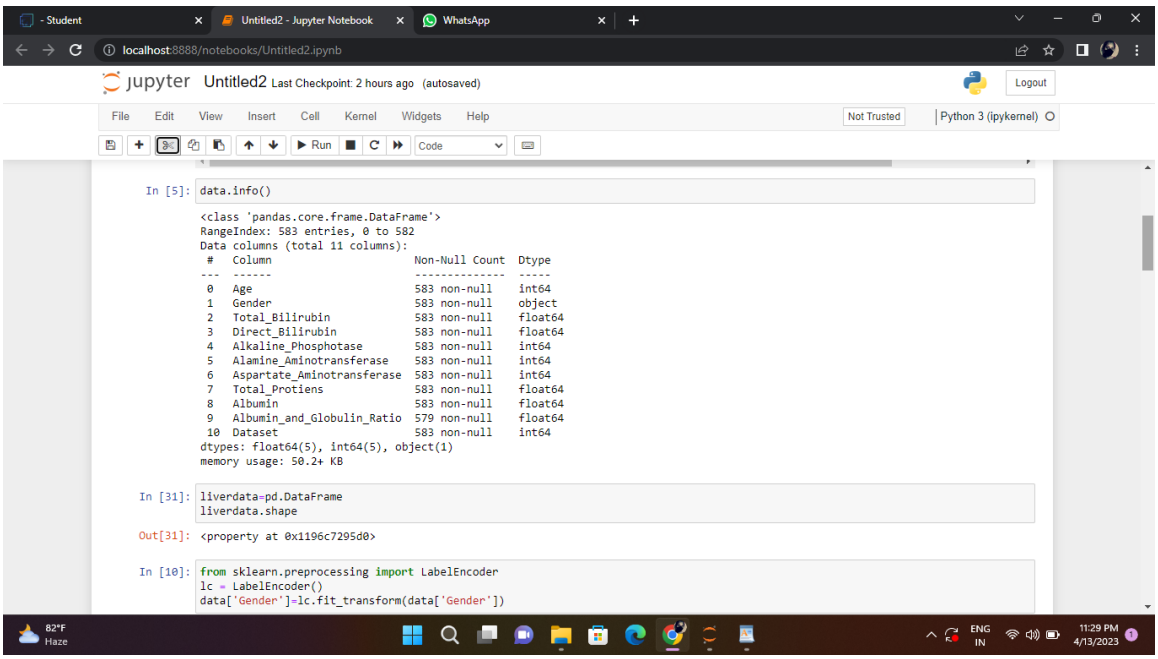

- Student
Untitled2 - Jupyter Notebook
WhatsApp
localhost:8888/notebooks/Untitled2.ipynb
jupyter Untitled2 Last Checkpoint: 2 hours ago (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Not Trusted
Python 3 (ipykernel)
Run
Code
In [7]:
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
from matplotlib import rcParams
from scipy import stats
In [2]:
data=pd.read_csv("C:\\Users\\dataset\\indian_liver_patient.csv")
In [3]:
data.head()
Out[3]:
Age Gender Total_Bilirubin Direct_Bilirubin Alkaline_Phosphotase Alamine_Aminotransferase Aspartate_Aminotransferase Total_Protiens Albumin Albumi
0 65 Female 0.7 0.1 187 16 18 6.8 3.3
1 62 Male 10.9 5.5 699 64 100 7.5 3.2
2 62 Male 7.3 4.1 490 60 68 7.0 3.3
3 58 Male 1.0 0.4 182 14 20 6.8 3.4
4 72 Male 3.9 2.0 195 27 59 7.3 2.4
In [5]:
data.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 583 entries, 0 to 582
Data columns (total 11 columns):
82°F
Haze
ENG
IN
11:33 PM
4/13/2023


- Student
Untitled2 - Jupyter Notebook
WhatsApp
localhost:8888/notebooks/Untitled2.ipynb
jupyter Untitled2 Last Checkpoint: 2 hours ago (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Not Trusted
Python 3 (ipykernel)
Run
Code
In [5]:
data.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 583 entries, 0 to 582
Data columns (total 11 columns):
Column Non-Null Count Dtype
--- ------ -------------- -----
0 Age 583 non-null int64
1 Gender 583 non-null object
2 Total_Bilirubin 583 non-null float64
3 Direct_Bilirubin 583 non-null float64
4 Alkaline_Phosphotase 583 non-null int64
5 Alamine_Aminotransferase 583 non-null int64
6 Aspartate_Aminotransferase 583 non-null int64
7 Total_Protiens 583 non-null float64
8 Albumin 583 non-null float64
9 Albumin_and_Globulin_Ratio 579 non-null float64
10 Dataset 583 non-null int64
dtypes: float64(5), int64(5), object(1)
memory usage: 50.2+ KB
In [31]:
liverdata=pd.DataFrame
liverdata.shape
Out[31]:
<property at 0x1196c7295d0>
In [10]:
from sklearn.preprocessing import LabelEncoder
lc = LabelEncoder()
data['Gender']=lc.fit_transform(data['Gender'])
82°F
Haze
ENG
IN
11:29 PM
4/13/2023

- Student | Untitled2 - Jupyter Notebook | WhatsApp

localhost:8888/notebooks/Untitled2.ipynb

jupyter **Untitled2** Last Checkpoint: 2 hours ago (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help Not Trusted Python 3 (ipykernel)

Run Code

In [33]:
```
data.describe()
```

Out[33]:

	Age	Gender	Total_Bilirubin	Direct_Bilirubin	Alkaline_Phosphotase	Alamine_Aminotransferase	Aspartate_Aminotransferase	Total_Protiens	
count	583.000000	583.000000	583.000000	583.000000	583.000000	583.000000	583.000000	583.000000	58
mean	44.746141	0.756432	3.298799	1.486106	290.576329	80.713551	109.910806	6.483190	
std	16.189833	0.429603	6.209522	2.808498	242.937989	182.620356	288.918529	1.085451	
min	4.000000	0.000000	0.400000	0.100000	63.000000	10.000000	10.000000	2.700000	
25%	33.000000	1.000000	0.800000	0.200000	175.500000	23.000000	25.000000	5.800000	
50%	45.000000	1.000000	1.000000	0.300000	208.000000	35.000000	42.000000	6.600000	
75%	58.000000	1.000000	2.600000	1.300000	298.000000	60.500000	87.000000	7.200000	
max	90.000000	1.000000	75.000000	19.700000	2110.000000	2000.000000	4929.000000	9.600000	

In [13]:
```
sns.distplot(data['Age'])
plt.title('Age distribution Graph')
plot.show()
```

```
C:\Users\Elakkiya\AppData\Local\Temp\ipykernel_11592\948853768.py:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see
```

82°F Haze ENG IN 11:29 PM 4/13/2023

- Student | Untitled2 - Jupyter Notebook | WhatsApp

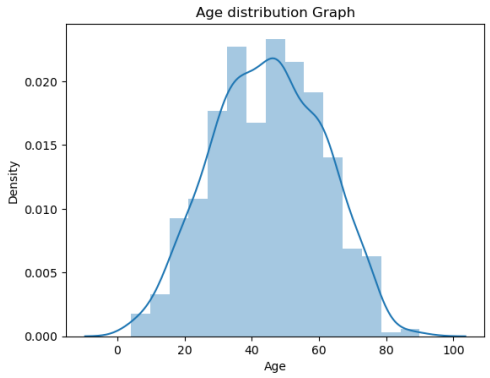
localhost:8888/notebooks/Untitled2.ipynb

jupyter **Untitled2** Last Checkpoint: 2 hours ago (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help Not Trusted Python 3 (ipykernel)

Run Code

```
NameError: name 'plot' is not defined
```



82°F Haze ENG IN 11:30 PM 4/13/2023