Major Project

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PROJECT -1:-

Take a dataset of your choice and do EDA (Exploratory Data Analysis)-atleast 5 to 8 different Analysis and Apply a suitable algoritm and calculate the accuracy

In [1]:
```
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
df = pd.read_csv('heart.csv')
df
```

Out[1]:

	Age	Sex	ChestPainType	RestingBP	Cholesterol	FastingBS	RestingECG	MaxHR	ExerciseAngina
0	40	M	ATA	140	289	0	Normal	172	N
1	49	F	NAP	160	180	0	Normal	156	N
2	37	M	ATA	130	283	0	ST	98	N
3	48	F	ASY	138	214	0	Normal	108	Y
4	54	M	NAP	150	195	0	Normal	122	N
...	...	...	...	...	...	...	...	...	...
913	45	M	TA	110	264	0	Normal	132	N
914	68	M	ASY	144	193	1	Normal	141	N
915	57	M	ASY	130	131	0	Normal	115	Y
916	57	F	ATA	130	236	0	LVH	174	N
917	38	M	NAP	138	175	0	Normal	173	N

918 rows × 12 columns

In [2]:
```
df.nunique()
```

Out[2]:
```
Age                 50
Sex                  2
ChestPainType        4
RestingBP           67
Cholesterol        222
FastingBS            2
RestingECG           3
MaxHR              119
ExerciseAngina       2
Oldpeak             53
ST_Slope             3
HeartDisease         2
dtype: int64
```

In [3]:
```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 918 entries, 0 to 917
Data columns (total 12 columns):
 #   Column          Non-Null Count  Dtype
---  ------          --------------  -----
 0   Age             918 non-null    int64
 1   Sex             918 non-null    object
 2   ChestPainType   918 non-null    object
 3   RestingBP       918 non-null    int64
 4   Cholesterol     918 non-null    int64
```

```
 5   FastingBS       918 non-null    int64
 6   RestingECG      918 non-null    object
 7   MaxHR           918 non-null    int64
 8   ExerciseAngina  918 non-null    object
 9   Oldpeak         918 non-null    float64
 10  ST_Slope        918 non-null    object
 11  HeartDisease    918 non-null    int64
dtypes: float64(1), int64(6), object(5)
memory usage: 86.2+ KB
```

In [4]:
```
print(df.describe())
```

```
              Age   RestingBP  Cholesterol   FastingBS       MaxHR  \
count  918.000000  918.000000   918.000000  918.000000  918.000000
mean    53.510893  132.396514   198.799564    0.233115  136.809368
std      9.432617   18.514154   109.384145    0.423046   25.460334
min     28.000000    0.000000     0.000000    0.000000   60.000000
25%     47.000000  120.000000   173.250000    0.000000  120.000000
50%     54.000000  130.000000   223.000000    0.000000  138.000000
75%     60.000000  140.000000   267.000000    0.000000  156.000000
max     77.000000  200.000000   603.000000    1.000000  202.000000

          Oldpeak  HeartDisease
count  918.000000    918.000000
mean     0.887364      0.553377
std      1.066570      0.497414
min     -2.600000      0.000000
25%      0.000000      0.000000
50%      0.600000      1.000000
75%      1.500000      1.000000
max      6.200000      1.000000
```

In [5]:
```
df.groupby('HeartDisease').size()
```

Out[5]:
```
HeartDisease
0    410
1    508
dtype: int64
```

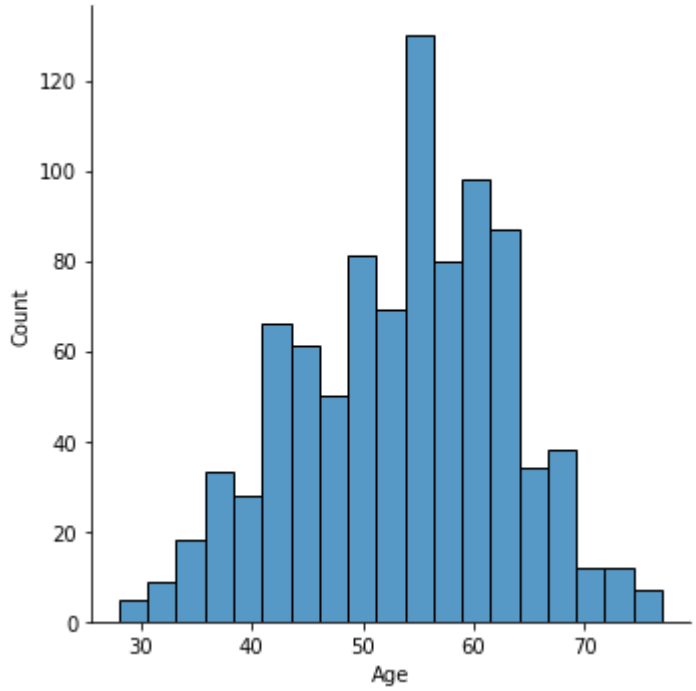
In [6]:
```
df.groupby('Sex').count()
```

Out[6]:

	Age	ChestPainType	RestingBP	Cholesterol	FastingBS	RestingECG	MaxHR	ExerciseAngina	Oldp
Sex									
F	193	193	193	193	193	193	193	193	
M	725	725	725	725	725	725	725	725	

In [7]:
```
sns.displot(df['Age'])
```

Out[7]:
```
<seaborn.axisgrid.FacetGrid at 0x225a7a6daf0>
```

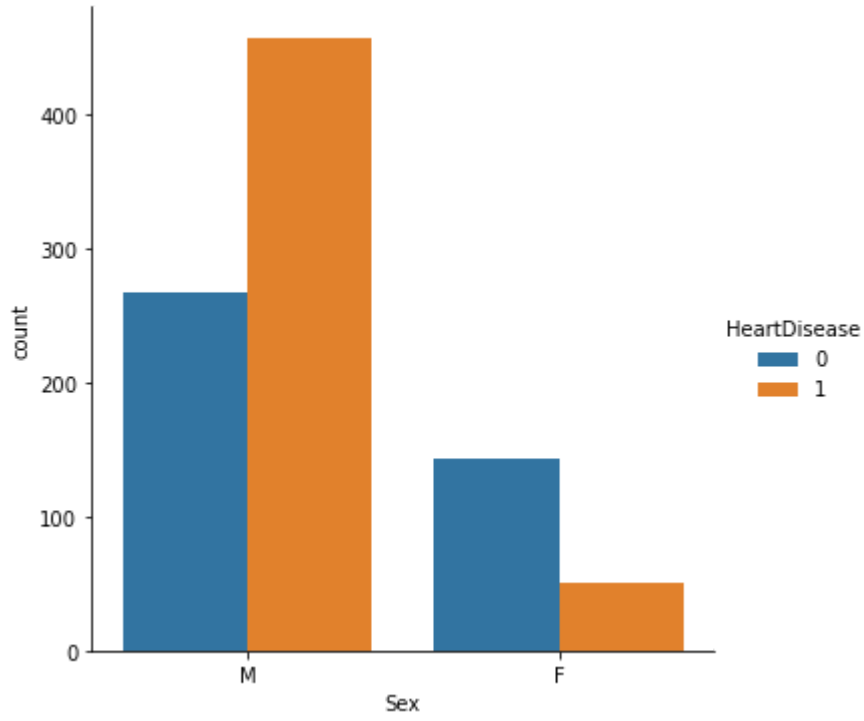


In [8]:
```
young = np.sum((df['Age']>=0) & (df['Age']<20))
adult = np.sum((df['Age']>=20) & (df['Age']<40))
midage = np.sum((df['Age']>=40) & (df['Age']<60))
old = np.sum((df['Age']>=60))
print("\n young =",young,"\n","adult =",adult,"\n","midage =",midage,"\n","old =",old)
```

```
young = 0
adult = 80
midage = 585
old = 253
```

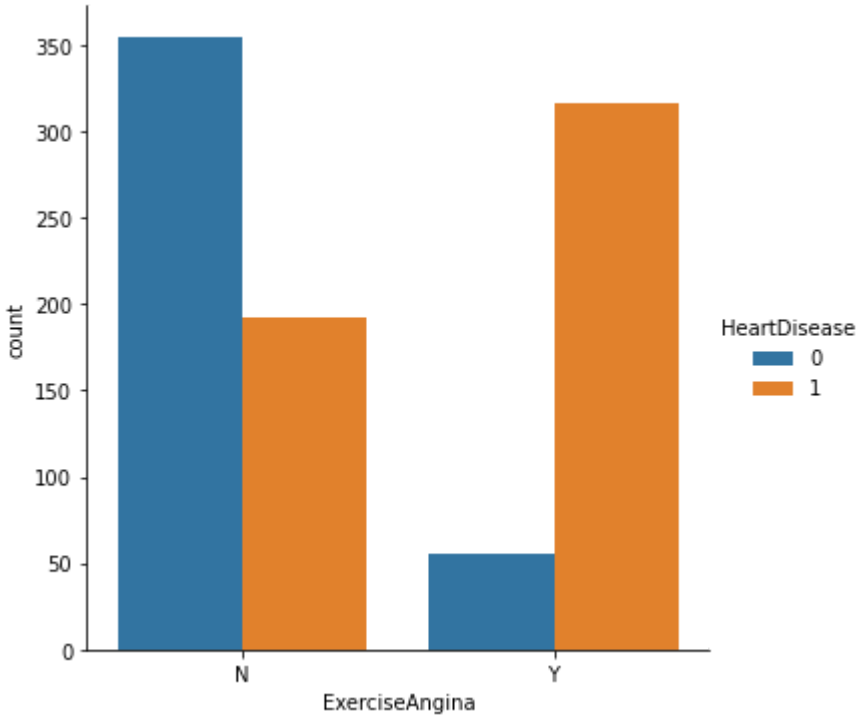
In [9]:
```
sns.catplot(x='Sex',hue='HeartDisease',kind='count',data=df)
```

Out[9]: <seaborn.axisgrid.FacetGrid at 0x225a7a6d160>



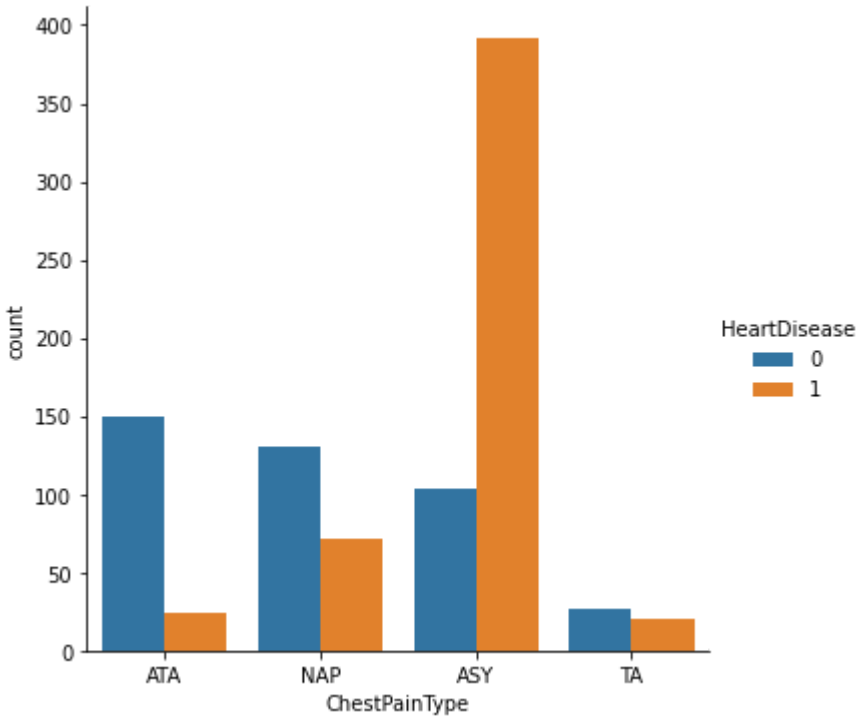
In [10]:
```
sns.catplot(x='ExerciseAngina',hue='HeartDisease',kind='count',data=df)
```

Out[10]: <seaborn.axisgrid.FacetGrid at 0x225a7e94670>



In [11]:
```
sns.catplot(x='ChestPainType',hue='HeartDisease',kind='count',data=df)
```

Out[11]: <seaborn.axisgrid.FacetGrid at 0x225a7f1dcd0>



In [17]:
```
# input
# output - survived or not

x = df.iloc[:,0:11].values
y = df.iloc[:,11].values
```

```
print(x)
print(y)
```

```
[[40 'M' 'ATA' ... 'N' 0.0 'Up']
 [49 'F' 'NAP' ... 'N' 1.0 'Flat']
 [37 'M' 'ATA' ... 'N' 0.0 'Up']
 ...
 [57 'M' 'ASY' ... 'Y' 1.2 'Flat']
 [57 'F' 'ATA' ... 'N' 0.0 'Flat']
 [38 'M' 'NAP' ... 'N' 0.0 'Up']]
[0 1 0 1 0 0 0 0 1 0 0 1 0 1 0 0 1 0 1 1 0 0 0 1 0 0 0 0 0 0 1 0 1 1 0 0 1
 0 0 0 0 1 0 0 1 0 0 0 0 1 1 1 0 0 0 0 1 1 0 1 0 0 0 1 0 0 0 0 1 0 1 0 1 0
 1 0 1 0 0 1 0 0 1 0 1 1 1 0 1 0 0 0 0 1 0 1 0 0 0 0 1 0 1 1 1 0 0 0 0 0 0
 1 0 0 0 1 1 1 0 1 1 0 0 1 0 0 0 0 0 0 0 1 1 1 0 1 0 0 1 1 1 1 1 0 1 0 0 0
 0 1 0 0 0 0 0 1 1 0 1 0 1 1 0 0 0 1 1 0 0 0 0 0 0 0 1 1 1 0 0 0 1 0 1 0 0
 1 0 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 1 1 1 0 0 1 0 1 0 0 0 1 1
 0 0 0 1 0 1 0 0 0 0 0 0 0 0 1 1 1 1 0 1 1 0 1 0 1 1 1 1 1 1 0 0 1 0 0 0 0
 0 0 0 1 1 1 0 1 0 1 0 0 0 1 0 0 0 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1
 1 1 1 1 1 0 1 1 1 1 1 0 1 1 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 0
 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 0 1 1 0 0 1 0 1 1 0 1 1 1 1 0 1 1 0 0 1 1 1 0 1 1 1 1
 1 1 1 1 1 1 1 1 1 0 1 0 1 1 1 0 1 1 1 0 1 0 1 0 1 0 1 1 1 1 0 1 0 1 1 1 1
 1 1 1 1 1 0 1 0 1 1 1 1 1 1 1 0 1 1 1 1 1 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1
 1 1 0 1 1 1 0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 0 0 1 1 1 0 1 0 1 1 0
 1 0 1 1 1 0 0 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 0 1 1 0 0
 1 1 1 1 1 0 1 1 0 1 1 1 0 0 1 1 1 1 1 0 1 0 1 1 0 1 0 0 0 1 1 1 1 0 0 0 1
 0 0 1 1 0 0 1 0 0 0 0 0 0 0 1 0 1 0 0 1 1 1 1 1 0 0 1 0 0 0 1 0 1 1 1 1 1
 0 0 0 0 0 1 0 1 1 0 1 0 0 0 1 0 1 0 1 1 0 0 0 0 1 0 0 0 0 1 1 1 0 0 0 0 0
 0 1 0 1 1 1 1 1 0 1 0 0 0 1 0 1 1 1 0 1 1 0 1 0 1 0 0 0 1 1 0 1 1 1 1 0 0
 0 1 0 0 1 1 1 0 1 0 0 0 1 0 0 1 0 1 0 1 1 1 1 1 0 0 0 0 0 0 0 1 0 0 1 1 1
 0 1 0 0 0 0 0 1 0 1 1 0 0 1 1 1 1 0 0 1 1 0 0 0 1 0 0 1 0 1 0 1 0 0 0 0 0
 1 0 1 1 1 1 0 0 0 1 0 1 0 0 1 0 0 0 0 0 0 1 1 0 1 0 0 1 1 0 0 1 1 0 1 0 1
 0 1 0 0 1 0 0 1 0 1 1 0 1 1 1 0 1 0 0 0 0 1 1 0 0 1 1 0 1 0 0 0 0 1 0 0 1
 1 1 0 0 0 1 0 1 0 1 0 1 1 1 0 0 0 1 0 1 1 1 0 1 1 1 1 1 1 0]
```

In [18]:

```
#train_test_split
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test = train_test_split(x,y,test_size = 0.2,random_state = 0)
```

In [19]:

```
print(x.size)
print(x_train.size)
print(x_test.size)
print("\n")
print(y.size)
print(y_train.size)
print(y_test.size)
```

```
10098
8074
2024


918
734
184
```

In [25]:

```
for i in range(0,918):
    if df['ExerciseAngina'][i] == 'N':
        df['ExerciseAngina'][i] = int(0)
    else:
```

```
        df['ExerciseAngina'][i] = int(1)
df
```

```
<ipython-input-25-4cb67c7c975d>:3: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_
guide/indexing.html#returning-a-view-versus-a-copy
  df['ExerciseAngina'][i] = int(0)
<ipython-input-25-4cb67c7c975d>:5: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_
guide/indexing.html#returning-a-view-versus-a-copy
  df['ExerciseAngina'][i] = int(1)
```

Out[25]:

	Age	Sex	ChestPainType	RestingBP	Cholesterol	FastingBS	RestingECG	MaxHR	ExerciseAngina
0	40	M	ATA	140	289	0	Normal	172	0
1	49	F	NAP	160	180	0	Normal	156	0
2	37	M	ATA	130	283	0	ST	98	0
3	48	F	ASY	138	214	0	Normal	108	1
4	54	M	NAP	150	195	0	Normal	122	0
...	...	...	...	...	...	...	...	...	...
913	45	M	TA	110	264	0	Normal	132	0
914	68	M	ASY	144	193	1	Normal	141	0
915	57	M	ASY	130	131	0	Normal	115	1
916	57	F	ATA	130	236	0	LVH	174	0
917	38	M	NAP	138	175	0	Normal	173	0

918 rows × 12 columns

In [27]:

```
df['ExerciseAngina']=df['ExerciseAngina'].astype('int64')
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 918 entries, 0 to 917
Data columns (total 12 columns):
 #   Column          Non-Null Count  Dtype
---  ------          --------------  -----
 0   Age             918 non-null    int64
 1   Sex             918 non-null    object
 2   ChestPainType   918 non-null    object
 3   RestingBP       918 non-null    int64
 4   Cholesterol     918 non-null    int64
 5   FastingBS       918 non-null    int64
 6   RestingECG      918 non-null    object
 7   MaxHR           918 non-null    int64
 8   ExerciseAngina  918 non-null    int64
 9   Oldpeak         918 non-null    float64
 10  ST_Slope        918 non-null    object
 11  HeartDisease    918 non-null    int64
dtypes: float64(1), int64(7), object(4)
memory usage: 86.2+ KB
```

In [28]:
```
df_num = df.select_dtypes(include=['float64','int64'])
df_num
```

Out[28]:

	Age	RestingBP	Cholesterol	FastingBS	MaxHR	ExerciseAngina	Oldpeak	HeartDisease
0	40	140	289	0	172	0	0.0	0
1	49	160	180	0	156	0	1.0	1
2	37	130	283	0	98	0	0.0	0
3	48	138	214	0	108	1	1.5	1
4	54	150	195	0	122	0	0.0	0
...	...	...	...	...	...	...	...	...
913	45	110	264	0	132	0	1.2	1
914	68	144	193	1	141	0	3.4	1
915	57	130	131	0	115	1	1.2	1
916	57	130	236	0	174	0	0.0	1
917	38	138	175	0	173	0	0.0	0

918 rows × 8 columns

In [29]:
```
df_num.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 918 entries, 0 to 917
Data columns (total 8 columns):
 #   Column          Non-Null Count  Dtype
---  ------          --------------  -----
 0   Age             918 non-null    int64
 1   RestingBP       918 non-null    int64
 2   Cholesterol     918 non-null    int64
 3   FastingBS       918 non-null    int64
 4   MaxHR           918 non-null    int64
 5   ExerciseAngina  918 non-null    int64
 6   Oldpeak         918 non-null    float64
 7   HeartDisease    918 non-null    int64
dtypes: float64(1), int64(7)
memory usage: 57.5 KB
```

In [30]:
```
# input
# output - survived or not

x = df_num.iloc[:,0:7].values
y = df_num.iloc[:,7].values

print(x)
print(y)
```

```
[[ 40.  140.  289.  ... 172.    0.    0. ]
 [ 49.  160.  180.  ... 156.    0.    1. ]
 [ 37.  130.  283.  ...  98.    0.    0. ]
 ...
 [ 57.  130.  131.  ... 115.    1.    1.2]
 [ 57.  130.  236.  ... 174.    0.    0. ]
 [ 38.  138.  175.  ... 173.    0.    0. ]]
```

```
[0 1 0 1 0 0 0 0 1 0 0 1 0 1 0 0 1 0 1 1 0 0 0 1 0 0 0 0 0 0 1 0 1 1 0 0 1
 0 0 0 0 1 0 0 1 0 0 0 0 1 1 1 0 0 0 0 1 1 0 1 0 0 0 1 0 0 0 0 1 0 1 0 1 0
 1 0 1 0 0 1 0 0 1 0 1 1 1 0 1 0 0 0 0 1 0 1 0 0 0 0 1 0 1 1 1 0 0 0 0 0 0
 1 0 0 0 1 1 1 0 1 1 0 0 1 0 0 0 0 0 0 0 1 1 1 0 1 0 0 1 1 1 1 1 0 1 0 0 0
 0 1 0 0 0 0 0 1 1 0 1 0 1 1 0 0 0 1 1 0 0 0 0 0 0 0 1 1 1 0 0 0 1 0 1 0 0
 1 0 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 1 1 1 0 0 1 0 1 0 0 0 1 1
 0 0 0 1 0 1 0 0 0 0 0 0 0 0 1 1 1 1 0 1 1 0 1 0 1 1 1 1 1 1 0 0 1 0 0 0 0
 0 0 0 1 1 1 0 1 0 1 0 0 0 1 0 0 0 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1
 1 1 1 1 1 0 1 1 1 1 1 0 1 1 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 0
 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 0 1 1 0 0 1 0 1 1 0 1 1 1 1 0 1 1 0 0 1 1 1 0 1 1 1 1
 1 1 1 1 1 1 1 1 1 0 1 0 1 1 1 0 1 1 1 0 1 0 1 0 1 0 1 1 1 1 0 1 0 1 1 1 1
 1 1 1 1 1 0 1 0 1 1 1 1 1 1 1 0 1 1 1 1 1 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1
 1 1 0 1 1 1 0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 0 0 1 1 1 0 1 0 1 1 0
 1 0 1 1 1 0 0 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 0 1 1 0 0
 1 1 1 1 1 0 1 1 0 1 1 1 0 0 1 1 1 1 1 0 1 0 1 1 0 1 0 0 0 1 1 1 1 0 0 0 1
 0 0 1 1 0 0 1 0 0 0 0 0 0 0 1 0 1 0 0 1 1 1 1 1 0 0 1 0 0 0 1 0 1 1 1 1 1
 0 0 0 0 0 1 0 1 1 0 1 0 0 0 1 0 1 0 1 1 0 0 0 0 1 0 0 0 0 1 1 1 0 0 0 0 0
 0 1 0 1 1 1 1 1 0 1 0 0 0 1 0 1 1 1 0 1 1 0 1 0 1 0 0 0 1 1 0 1 1 1 1 0 0
 0 1 0 0 1 1 1 0 1 0 0 0 1 0 0 1 0 1 0 1 1 1 1 1 0 0 0 0 0 0 0 1 0 0 1 1 1
 0 1 0 0 0 0 0 1 0 1 1 0 0 1 1 1 1 0 0 1 1 0 0 0 1 0 0 1 0 1 0 1 0 0 0 0 0
 1 0 1 1 1 1 0 0 0 1 0 1 0 0 1 0 0 0 0 0 0 1 1 0 1 0 0 1 1 0 0 1 1 0 1 0 1
 0 1 0 0 1 0 0 1 0 1 1 0 1 1 1 0 1 0 0 0 0 1 1 0 0 1 1 0 1 0 0 0 0 1 0 0 1
 1 1 0 0 0 1 0 1 0 1 0 1 1 1 0 0 0 1 0 1 1 1 0 1 1 1 1 1 1 0]
```

In [31]:

```python
#train_test_split
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test = train_test_split(x,y,test_size = 0.2,random_state = 0)
```

In [32]:

```python
print(x.size)
print(x_train.size)
print(x_test.size)
print("\n")
print(y.size)
print(y_train.size)
print(y_test.size)
```

```
6426
5138
1288


918
734
184
```

In [33]:

```python
#scaling or normalisation
from sklearn.preprocessing import MinMaxScaler
scaler = MinMaxScaler()

x_train = scaler.fit_transform(x_train)
x_test = scaler.fit_transform(x_test)
```

In [37]:

```python
#applying regresser or classifier
from sklearn.linear_model import LogisticRegression
model=LogisticRegression()

model.fit(x_train,y_train)
```

Out[37]:

```
LogisticRegression()
```

In [38]:
```
y_pred=model.predict(x_test)
y_pred
```

Out[38]:
```
array([1, 0, 1, 1, 0, 0, 0, 0, 0, 0, 1, 1, 1, 1, 0, 1, 1, 1, 1, 0, 1, 1,
       1, 1, 0, 0, 1, 1, 1, 1, 1, 0, 0, 0, 1, 0, 1, 0, 1, 0, 0, 1, 1, 0,
       1, 0, 0, 1, 1, 0, 0, 0, 0, 1, 1, 1, 1, 0, 1, 0, 1, 0, 1, 0, 1, 1,
       1, 0, 1, 0, 0, 1, 0, 1, 1, 1, 1, 0, 0, 0, 1, 1, 0, 0, 1, 0, 1, 1,
       1, 0, 0, 1, 0, 0, 1, 0, 1, 0, 0, 0, 1, 0, 0, 1, 1, 1, 0, 0, 0, 1,
       0, 1, 0, 0, 1, 1, 1, 0, 1, 1, 1, 0, 1, 0, 0, 0, 0, 1, 0, 1, 0, 1,
       1, 1, 1, 0, 1, 1, 0, 0, 1, 1, 0, 1, 0, 0, 1, 1, 1, 1, 0, 1, 0, 0,
       1, 0, 1, 0, 1, 0, 0, 0, 1, 0, 0, 1, 1, 0, 1, 1, 1, 1, 0, 0, 0, 1,
       0, 1, 1, 1, 1, 0, 0, 1], dtype=int64)
```

In [39]:
```
y_test
```

Out[39]:
```
array([1, 0, 1, 1, 0, 0, 0, 0, 0, 0, 1, 0, 1, 1, 0, 1, 1, 1, 1, 0, 1, 1,
       1, 1, 0, 0, 1, 1, 0, 0, 1, 0, 0, 0, 1, 0, 1, 0, 1, 0, 0, 1, 1, 0,
       1, 0, 0, 1, 1, 1, 1, 0, 0, 1, 1, 0, 1, 0, 1, 0, 1, 1, 1, 0, 1, 1,
       1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 0, 1, 0, 0, 1, 0, 0, 1, 0, 0, 1,
       1, 0, 0, 1, 0, 1, 1, 0, 1, 0, 0, 0, 1, 1, 0, 1, 1, 1, 0, 0, 0, 1,
       0, 1, 0, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 0, 0, 1, 0, 1, 0, 1, 1, 1,
       0, 1, 1, 1, 0, 1, 0, 0, 1, 1, 0, 1, 0, 0, 1, 1, 1, 1, 1, 1, 0, 0,
       0, 0, 1, 1, 1, 0, 1, 1, 1, 0, 1, 0, 1, 0, 1, 1, 1, 1, 0, 0, 1, 0,
       0, 1, 0, 1, 1, 1, 0, 1], dtype=int64)
```

In [40]:
```
#to check the accuracy
from sklearn.metrics import accuracy_score
accuracy_score(y_pred,y_test)*100
```

Out[40]:
```
82.06521739130434
```

PROJECT -2

You will be given a dataset [IRIS FLOWER DATASET] , create a model and deploy it using STREAMLIT app and permanently.

USE HEROKU FOR DEPLOYMENT.

URL:- https://iris-data-set.herokuapp.com/

https://github.com/ALSVenky/iris-data-set

Procedure:-

- CREATE a github repo
- Create a procfile and make sure you have setup.sh and app.py mentioned
- Create app.py file and write streamlit code in it.
- Create a requirements.txt file and add the required libraries.
- Create setup.sh file.
- Now go to heroku website and create a new app by linking to current github repository
- Make some negligible changes in the repository and commit the changes.
- After the changes are commited, Streamlink URL is generated.

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1 contributor

1 lines (1 sloc) | 41 Bytes Raw Blame

```
web: sh setup.sh && streamlit run app.py
```


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1 contributor

18 lines (14 sloc) | 492 Bytes Raw Blame

```
import streamlit as st
st.title("Iris Classifier- API")

sl = st.slider('Sepal Length', 4.3, 7.9, 0.5)
sw = st.slider('Sepal Width', 2.0, 4.4, 0.5)
pl = st.slider('Petal Length', 1.0, 6.9, 0.5)
pw = st.slider('Petal Width', 0.1,2.5, 0.5)

from sklearn.datasets import load_iris
iris = load_iris()

```

Iris Classifier- API

Sepal Length

3.50

0.50 7.90

Sepal Width

2.43

0.50 4.40

Petal Length

2.75

0.50 6.90

Petal Width

1.28

0.10 2.50

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