

```

# Importing necessary libraries
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler
from sklearn.linear_model import LogisticRegression
from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import accuracy_score, classification_report,
confusion_matrix

# Loading the datasets
train_data = pd.read_csv('train (2).csv')
test_data = pd.read_csv('test (2).csv')

# Inspecting the datasets
print("Train Data Head:")
train_data.head()

```

Train Data Head:

	PassengerId	Survived	Pclass	\
0	1	0	3	
1	2	1	1	
2	3	1	3	
3	4	1	1	
4	5	0	3	

	SibSp	\	Name	Sex	Age
0			Braund, Mr. Owen Harris	male	22.0
1					
1	1		Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0
1					
2			Heikkinen, Miss. Laina	female	26.0
0					
3			Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0
1					
4			Allen, Mr. William Henry	male	35.0
0					

	Parch		Ticket	Fare	Cabin	Embarked
0	0		A/5 21171	7.2500	NaN	S
1	0		PC 17599	71.2833	C85	C
2	0	STON/O2.	3101282	7.9250	NaN	S
3	0		113803	53.1000	C123	S
4	0		373450	8.0500	NaN	S

```
print("\nTest Data Head:")
test_data.head()
```

Test Data Head:

	PassengerId	Pclass	Name
Sex \			
0	892	3	Kelly, Mr. James
male			
1	893	3	Wilkes, Mrs. James (Ellen Needs)
female			
2	894	2	Myles, Mr. Thomas Francis
male			
3	895	3	Wirz, Mr. Albert
male			
4	896	3	Hirvonen, Mrs. Alexander (Helga E Lindqvist)
female			

	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	34.5	0	0	330911	7.8292	NaN	Q
1	47.0	1	0	363272	7.0000	NaN	S
2	62.0	0	0	240276	9.6875	NaN	Q
3	27.0	0	0	315154	8.6625	NaN	S
4	22.0	1	1	3101298	12.2875	NaN	S

```
print("\nTrain Data Info:")
print(train_data.info())
```

```
print("\nTest Data Info:")
print(test_data.info())
```

Train Data Info:

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 12 columns):
#   Column          Non-Null Count  Dtype
---  -
0   PassengerId     891 non-null    int64
1   Survived        891 non-null    int64
2   Pclass          891 non-null    int64
3   Name            891 non-null    object
4   Sex             891 non-null    object
5   Age            714 non-null    float64
6   SibSp           891 non-null    int64
7   Parch          891 non-null    int64
8   Ticket          891 non-null    object
9   Fare           891 non-null    float64
10  Cabin           204 non-null    object
11  Embarked        889 non-null    object
```

```
dtypes: float64(2), int64(5), object(5)
memory usage: 83.7+ KB
None
```

Test Data Info:

```
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 418 entries, 0 to 417
```

```
Data columns (total 11 columns):
```

#	Column	Non-Null Count	Dtype
0	PassengerId	418 non-null	int64
1	Pclass	418 non-null	int64
2	Name	418 non-null	object
3	Sex	418 non-null	object
4	Age	332 non-null	float64
5	SibSp	418 non-null	int64
6	Parch	418 non-null	int64
7	Ticket	418 non-null	object
8	Fare	417 non-null	float64
9	Cabin	91 non-null	object
10	Embarked	418 non-null	object

```
dtypes: float64(2), int64(4), object(5)
```

```
memory usage: 36.1+ KB
```

```
None
```

```
print("\nTrain Data Description:")
```

```
print(train_data.describe())
```

```
print("\nTest Data Description:")
```

```
print(test_data.describe())
```

Train Data Description:

	PassengerId	Survived	Pclass	Age	SibSp	\
count	891.000000	891.000000	891.000000	714.000000	891.000000	
mean	446.000000	0.383838	2.308642	29.699118	0.523008	
std	257.353842	0.486592	0.836071	14.526497	1.102743	
min	1.000000	0.000000	1.000000	0.420000	0.000000	
25%	223.500000	0.000000	2.000000	20.125000	0.000000	
50%	446.000000	0.000000	3.000000	28.000000	0.000000	
75%	668.500000	1.000000	3.000000	38.000000	1.000000	
max	891.000000	1.000000	3.000000	80.000000	8.000000	

	Parch	Fare
count	891.000000	891.000000
mean	0.381594	32.204208
std	0.806057	49.693429
min	0.000000	0.000000
25%	0.000000	7.910400
50%	0.000000	14.454200

```
75%      0.000000   31.000000
max       6.000000  512.329200
```

#### Test Data Description:

	PassengerId	Pclass	Age	SibSp	Parch
Fare					
count	418.000000	418.000000	332.000000	418.000000	418.000000
417.000000					
mean	1100.500000	2.265550	30.272590	0.447368	0.392344
35.627188					
std	120.810458	0.841838	14.181209	0.896760	0.981429
55.907576					
min	892.000000	1.000000	0.170000	0.000000	0.000000
0.000000					
25%	996.250000	1.000000	21.000000	0.000000	0.000000
7.895800					
50%	1100.500000	3.000000	27.000000	0.000000	0.000000
14.454200					
75%	1204.750000	3.000000	39.000000	1.000000	0.000000
31.500000					
max	1309.000000	3.000000	76.000000	8.000000	9.000000
512.329200					

```
# Checking for missing values
print("\nMissing values in train data:")
print(train_data.isnull().sum())

print("\nMissing values in test data:")
print(test_data.isnull().sum())
```

#### Missing values in train data:

```
PassengerId      0
Survived          0
Pclass            0
Name              0
Sex               0
Age              177
SibSp             0
Parch             0
Ticket            0
Fare              0
Cabin            687
Embarked          2
dtype: int64
```

#### Missing values in test data:

```
PassengerId      0
Pclass            0
Name              0
```

```
Sex          0
Age          86
SibSp        0
Parch        0
Ticket       0
Fare         1
Cabin       327
Embarked     0
dtype: int64
```

```
# Handling missing values (if any)
# Separate numeric and non-numeric columns
numeric_cols = train_data.select_dtypes(include=[np.number]).columns
non_numeric_cols =
train_data.select_dtypes(exclude=[np.number]).columns

# Fill missing values for numeric columns with mean
train_data[numeric_cols] =
train_data[numeric_cols].fillna(train_data[numeric_cols].mean())
#test_data[numeric_cols] =
test_data[numeric_cols].fillna(test_data[numeric_cols].mean())

# Fill missing 'Age' values with the mean of the column
test_data['Age'].fillna(test_data['Age'].mean(), inplace=True)
test_data['Fare'].fillna(test_data['Fare'].mean(), inplace=True)
```

```
C:\Users\shiva\AppData\Local\Temp\ipykernel_11628\2103912666.py:2:
FutureWarning: A value is trying to be set on a copy of a DataFrame or
Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never
work because the intermediate object on which we are setting values
always behaves as a copy.
```

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
test_data['Age'].fillna(test_data['Age'].mean(), inplace=True)
C:\Users\shiva\AppData\Local\Temp\ipykernel_11628\2103912666.py:3:
FutureWarning: A value is trying to be set on a copy of a DataFrame or
Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never
work because the intermediate object on which we are setting values
always behaves as a copy.
```

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```

    test_data['Fare'].fillna(test_data['Fare'].mean(), inplace=True)
# Fill missing values for non-numeric columns with mode
for col in non_numeric_cols:
    train_data[col] = train_data[col].fillna(train_data[col].mode()
[0])
    test_data[col] = test_data[col].fillna(test_data[col].mode()[0])
# Re-checking for missing values after handling
print("\nMissing values in train data after handling:")
train_data.isnull().sum()

```

Missing values in train data after handling:

```

PassengerId    0
Survived        0
Pclass          0
Name            0
Sex             0
Age             0
SibSp           0
Parch           0
Ticket          0
Fare            0
Cabin           0
Embarked        0
dtype: int64

```

```

print("\nMissing values in test data after handling:")
test_data.isnull().sum()

```

Missing values in test data after handling:

```

PassengerId    0
Pclass          0
Name            0
Sex             0
Age             0
SibSp           0
Parch           0
Ticket          0
Fare            0
Cabin           0
Embarked        0
dtype: int64

```

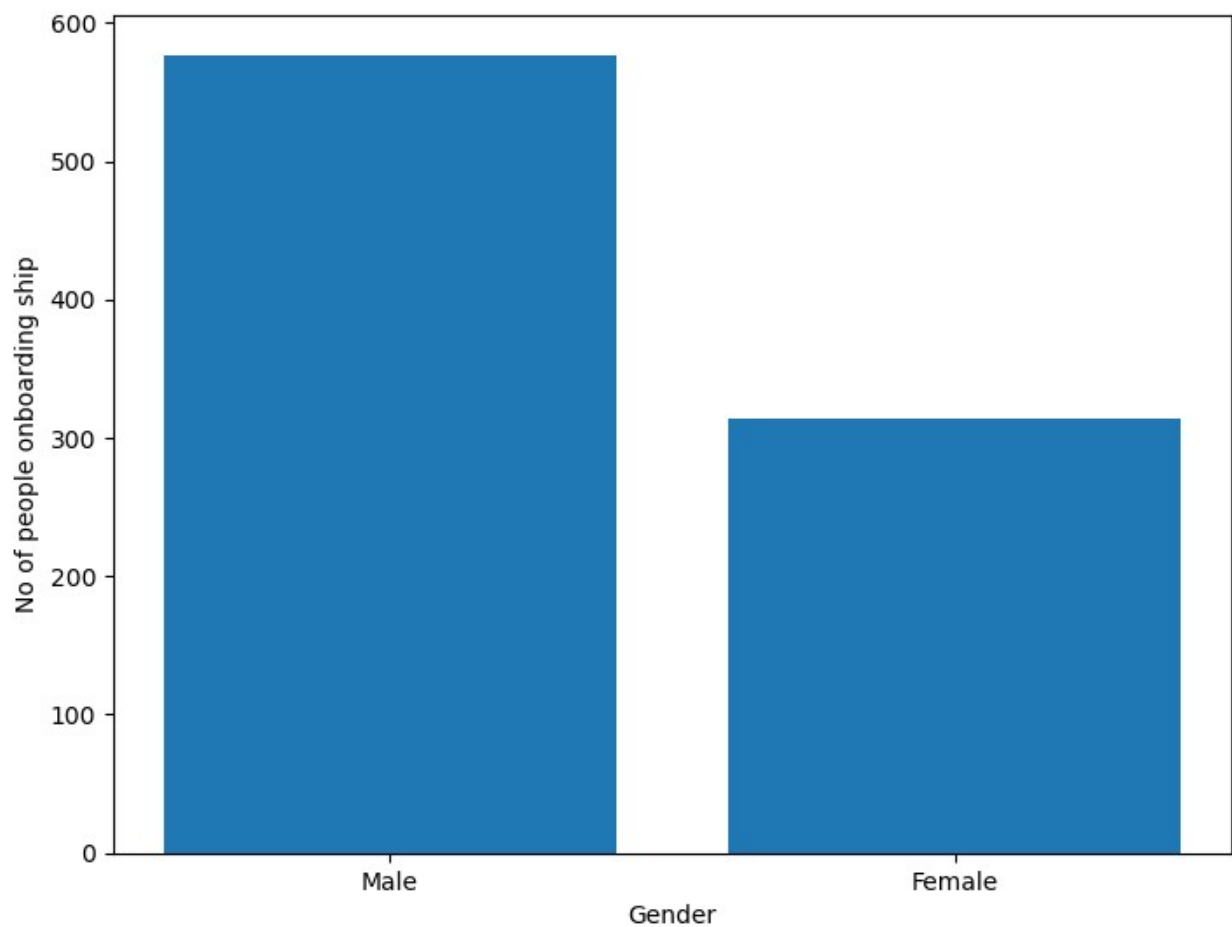
```
male_ind = len(train_data[train_data['Sex'] == 'male'])
print("No of Males in Titanic:",male_ind)

No of Males in Titanic: 577

female_ind = len(train_data[train_data['Sex'] == 'female'])
print("No of Females in Titanic:",female_ind)

No of Females in Titanic: 314

#Plotting
fig = plt.figure()
ax = fig.add_axes([0,0,1,1])
gender = ['Male','Female']
index = [577,314]
ax.bar(gender,index)
plt.xlabel("Gender")
plt.ylabel("No of people onboarding ship")
plt.show()
```



```

alive = len(train_data[train_data['Survived'] == 1])
dead = len(train_data[train_data['Survived'] == 0])

train_data.groupby('Sex')[['Survived']].mean()

```

```

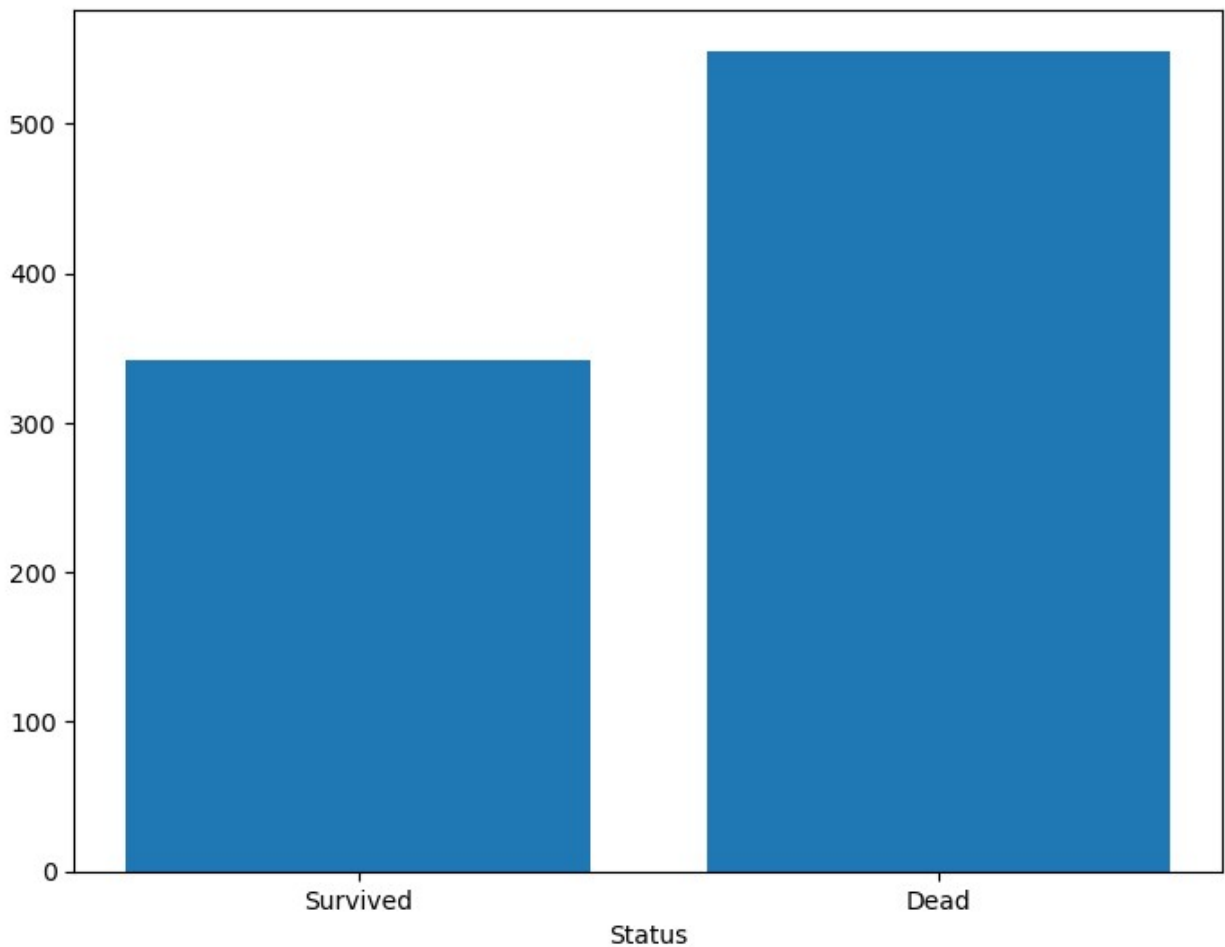
      Survived
Sex
female  0.742038
male    0.188908

```

```

fig = plt.figure()
ax = fig.add_axes([0,0,1,1])
status = ['Survived', 'Dead']
ind = [alive, dead]
ax.bar(status, ind)
plt.xlabel("Status")
plt.show()

```



```

plt.figure(1)
train_data.loc[train_data['Survived'] == 1,

```

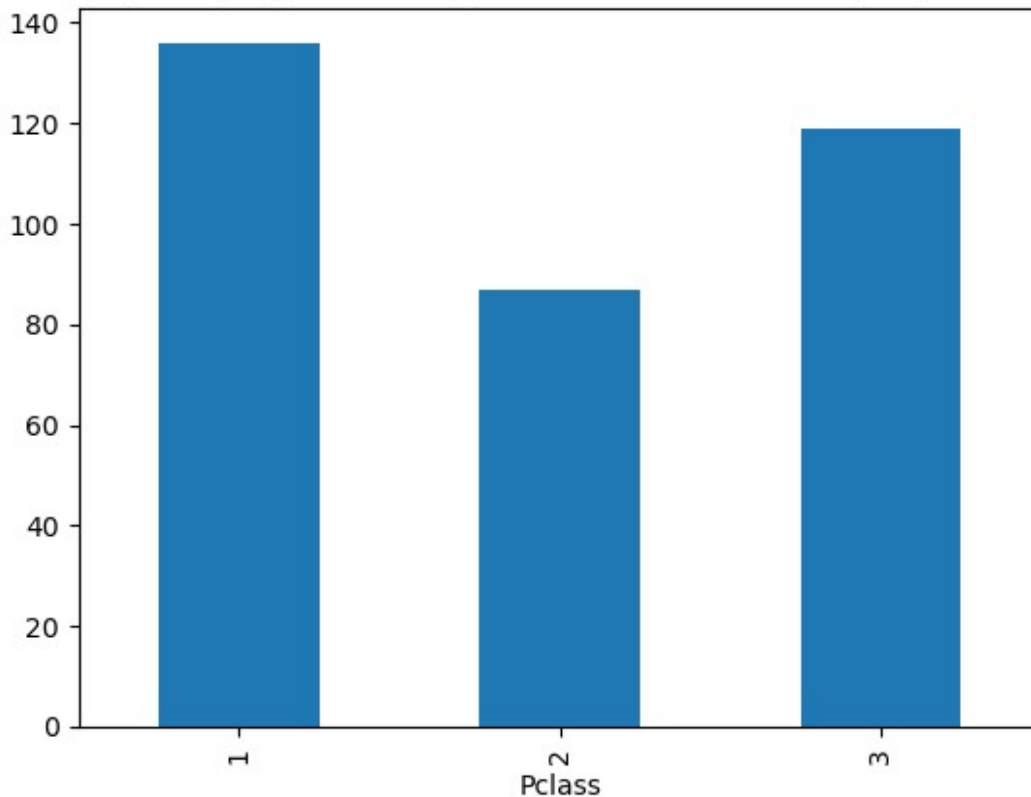


```
'Pclass'].value_counts().sort_index().plot.bar()
plt.title('Bar graph of people accrding to ticket class in which
people survived')
```

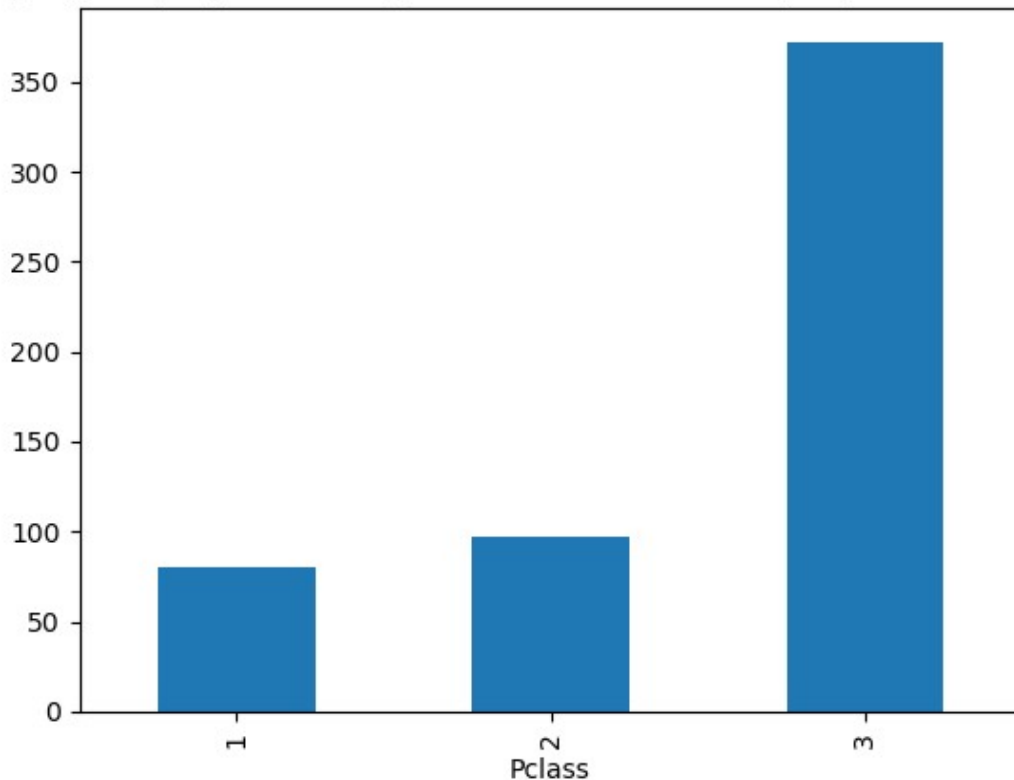
```
plt.figure(2)
train_data.loc[train_data['Survived'] == 0,
'Pclass'].value_counts().sort_index().plot.bar()
plt.title('Bar graph of people accrding to ticket class in which
people couldn\'t survive')
```

```
Text(0.5, 1.0, "Bar graph of people accrding to ticket class in which
people couldn't survive")
```

Bar graph of people accrding to ticket class in which people survived



Bar graph of people according to ticket class in which people couldn't survive



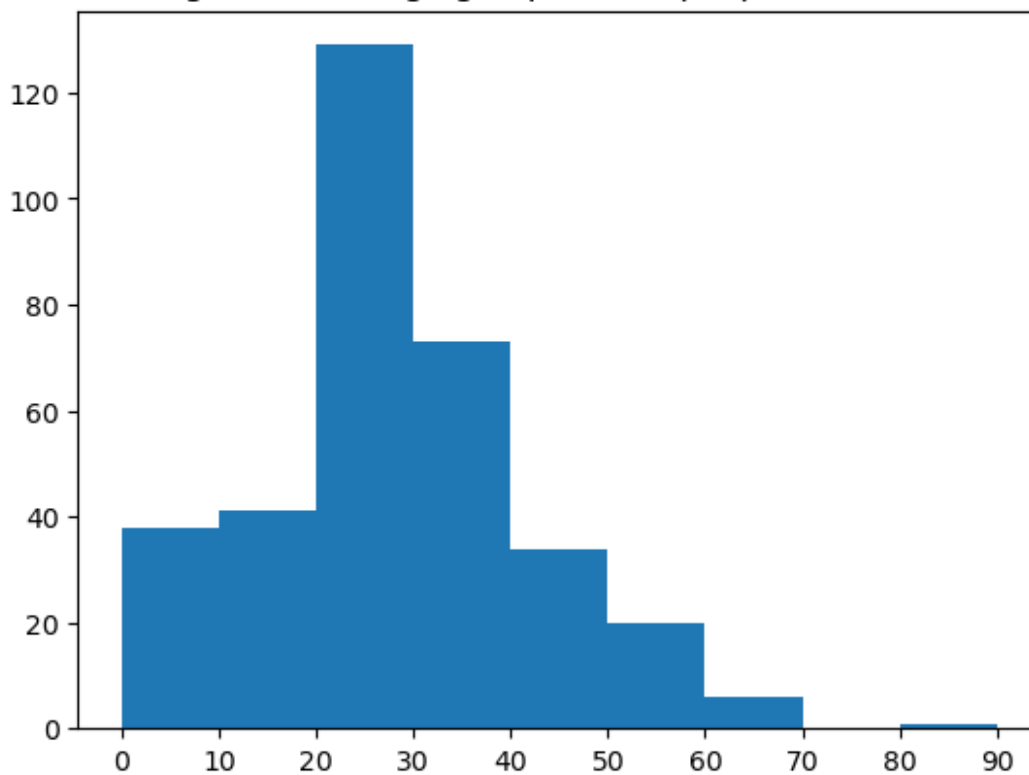
```
plt.figure(1)
age = train_data.loc[train_data.Survived == 1, 'Age']
plt.title('The histogram of the age groups of the people that had survived')
plt.hist(age, np.arange(0,100,10))
plt.xticks(np.arange(0,100,10))

plt.figure(2)
age = train_data.loc[train_data.Survived == 0, 'Age']
plt.title('The histogram of the age groups of the people that couldn\'t survive')
plt.hist(age, np.arange(0,100,10))
plt.xticks(np.arange(0,100,10))

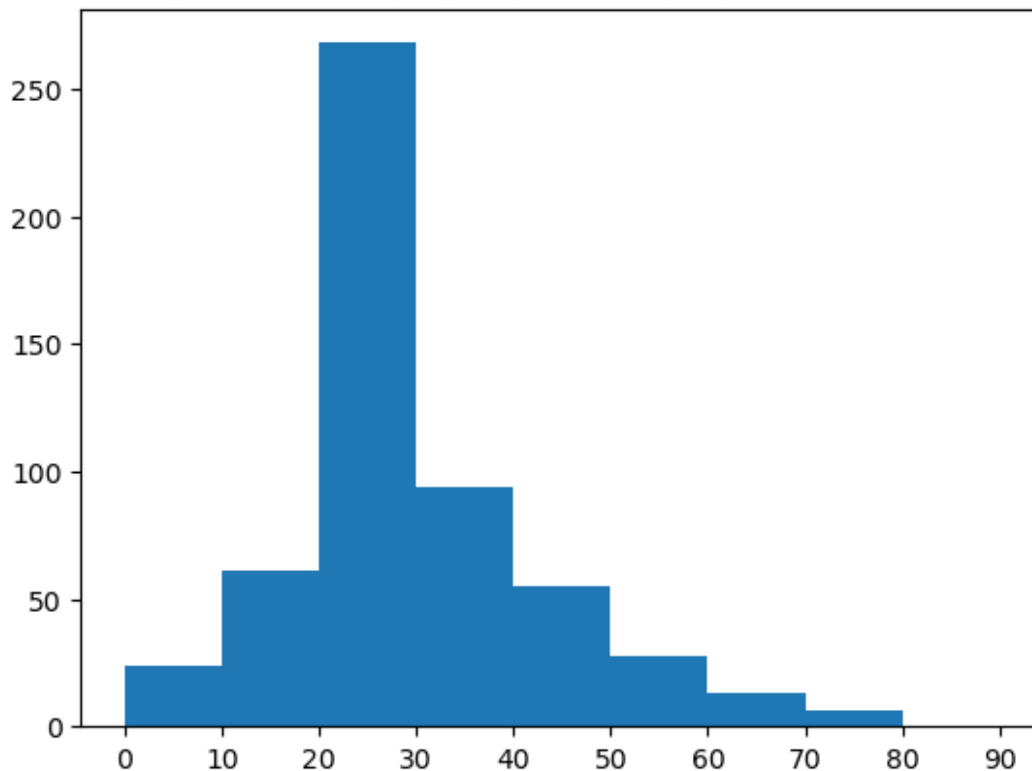
([<matplotlib.axis.XTick at 0x1f75cfbae70>,
 <matplotlib.axis.XTick at 0x1f75d512810>,
 <matplotlib.axis.XTick at 0x1f75cf8a930>,
 <matplotlib.axis.XTick at 0x1f75d54cb90>,
 <matplotlib.axis.XTick at 0x1f75d54d460>,
 <matplotlib.axis.XTick at 0x1f75d54dd60>,
 <matplotlib.axis.XTick at 0x1f75d54e6c0>,
 <matplotlib.axis.XTick at 0x1f75d54cf20>,
 <matplotlib.axis.XTick at 0x1f75d54f020>],
```

```
<matplotlib.axis.XTick at 0x1f75d54f980>],  
[Text(0, 0, '0'),  
Text(10, 0, '10'),  
Text(20, 0, '20'),  
Text(30, 0, '30'),  
Text(40, 0, '40'),  
Text(50, 0, '50'),  
Text(60, 0, '60'),  
Text(70, 0, '70'),  
Text(80, 0, '80'),  
Text(90, 0, '90')])
```

The histogram of the age groups of the people that had survived



The histogram of the age groups of the people that couldn't survive



```
train_data[["SibSp", "Survived"]].groupby(['SibSp'],  
as_index=False).mean().sort_values(by='Survived', ascending=False)
```

	SibSp	Survived
1	1	0.535885
2	2	0.464286
0	0	0.345395
3	3	0.250000
4	4	0.166667
5	5	0.000000
6	8	0.000000

```
train_data[["Pclass", "Survived"]].groupby(['Pclass'],  
as_index=False).mean().sort_values(by='Survived', ascending=False)
```

	Pclass	Survived
0	1	0.629630
1	2	0.472826
2	3	0.242363

```
train_data[["Age", "Survived"]].groupby(['Age'],  
as_index=False).mean().sort_values(by='Age', ascending=True)
```

	Age	Survived
0	0.42	1.0

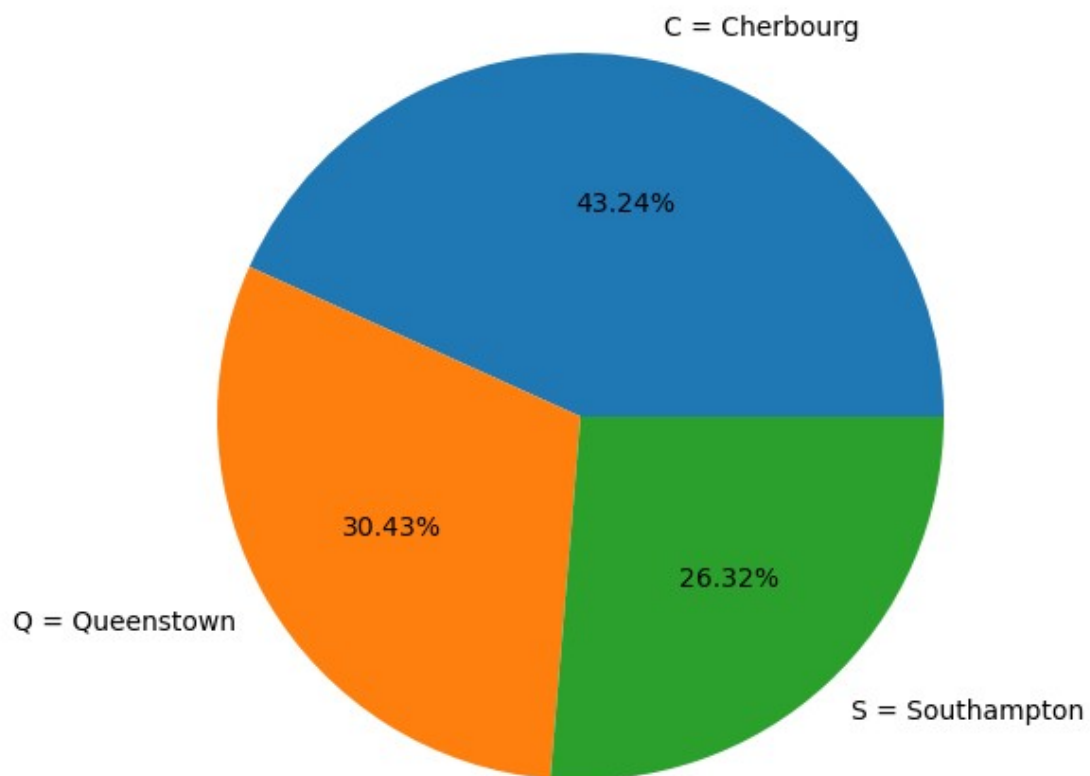
1	0.67	1.0
2	0.75	1.0
3	0.83	1.0
4	0.92	1.0
...	...	...
84	70.00	0.0
85	70.50	0.0
86	71.00	0.0
87	74.00	0.0
88	80.00	1.0

[89 rows x 2 columns]

```
train_data[["Embarked", "Survived"]].groupby(['Embarked'],
as_index=False).mean().sort_values(by='Survived', ascending=False)
```

	Embarked	Survived
0	C	0.553571
1	Q	0.389610
2	S	0.339009

```
fig = plt.figure()
ax = fig.add_axes([0,0,1,1])
ax.axis('equal')
l = ['C = Cherbourg', 'Q = Queenstown', 'S = Southampton']
s = [0.553571,0.389610,0.336957]
ax.pie(s, labels = l,autopct='%1.2f%%')
plt.show()
```



```
test_data.describe(include="all")
```

	PassengerId	Pclass	Name	Sex	Age	\
count	418.000000	418.000000	418	418	418.000000	
unique	NaN	NaN	418	2	NaN	
top	NaN	NaN	Kelly, Mr. James	male	NaN	
freq	NaN	NaN	1	266	NaN	
mean	1100.500000	2.265550	NaN	NaN	30.272590	
std	120.810458	0.841838	NaN	NaN	12.634534	
min	892.000000	1.000000	NaN	NaN	0.170000	
25%	996.250000	1.000000	NaN	NaN	23.000000	
50%	1100.500000	3.000000	NaN	NaN	30.272590	
75%	1204.750000	3.000000	NaN	NaN	35.750000	
max	1309.000000	3.000000	NaN	NaN	76.000000	

	SibSp	Parch	Ticket	Fare	Cabin
Embarked					
count	418.000000	418.000000	418	418.000000	418
unique	NaN	NaN	363	NaN	76
3					

top	NaN	NaN	PC	17608	NaN	B57	B59	B63	B66
S									
freq	NaN	NaN		5	NaN				330
270									
mean	0.447368	0.392344		NaN	35.627188				NaN
NaN									
std	0.896760	0.981429		NaN	55.840500				NaN
NaN									
min	0.000000	0.000000		NaN	0.000000				NaN
NaN									
25%	0.000000	0.000000		NaN	7.895800				NaN
NaN									
50%	0.000000	0.000000		NaN	14.454200				NaN
NaN									
75%	1.000000	0.000000		NaN	31.500000				NaN
NaN									
max	8.000000	9.000000		NaN	512.329200				NaN
NaN									

### #Dropping Useless Columns

```
train_data = train_data.drop(['Ticket'], axis = 1)
```

```
test_data = test_data.drop(['Ticket'], axis = 1)
```

```
train_data = train_data.drop(['Cabin'], axis = 1)
```

```
test_data = test_data.drop(['Cabin'], axis = 1)
```

```
train_data = train_data.drop(['Name'], axis = 1)
```

```
test_data = test_data.drop(['Name'], axis = 1)
```

### #Feature Selection

```
column_train=['Age', 'Pclass', 'SibSp', 'Parch', 'Fare', 'Sex', 'Embarked']
```

### #training values

```
X=train_data[column_train]
```

### #target value

```
Y=train_data['Survived']
```

```
X['Age'].isnull().sum()
```

```
X['Pclass'].isnull().sum()
```

```
X['SibSp'].isnull().sum()
```

```
X['Parch'].isnull().sum()
```

```
X['Fare'].isnull().sum()
```

```
X['Sex'].isnull().sum()
```

```
X['Embarked'].isnull().sum()
```

```
0
```

```
X['Age']=X['Age'].fillna(X['Age'].median())
```

```
X['Age'].isnull().sum()
```

```
C:\Users\shiva\AppData\Local\Temp\ipykernel_11628\2050903711.py:1:
```

```
SettingWithCopyWarning:
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation:

[https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy)

```
X['Age']=X['Age'].fillna(X['Age'].median())
```

0

```
X['Embarked'] = train_data['Embarked'].fillna(method='pad')
X['Embarked'].isnull().sum()
```

C:\Users\shiva\AppData\Local\Temp\ipykernel\_11628\586271917.py:1:  
FutureWarning: Series.fillna with 'method' is deprecated and will  
raise in a future version. Use obj.ffill() or obj.bfill() instead.

```
X['Embarked'] = train_data['Embarked'].fillna(method='pad')
```

C:\Users\shiva\AppData\Local\Temp\ipykernel\_11628\586271917.py:1:  
SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame.  
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation:

[https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy)

```
X['Embarked'] = train_data['Embarked'].fillna(method='pad')
```

0

```
d={'male':0, 'female':1}
X['Sex']=X['Sex'].apply(lambda x:d[x])
X['Sex'].head()
```

C:\Users\shiva\AppData\Local\Temp\ipykernel\_11628\1173502709.py:2:  
SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame.  
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation:

[https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy)

```
X['Sex']=X['Sex'].apply(lambda x:d[x])
```

```
0    0
1    1
2    1
3    1
4    0
```

Name: Sex, dtype: int64



```
e={'C':0, 'Q':1, 'S':2}
X['Embarked']=X['Embarked'].apply(lambda x:e[x])
X['Embarked'].head()
```

C:\Users\shiva\AppData\Local\Temp\ipykernel\_11628\4035217270.py:2:

SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row\_indexer,col\_indexer] = value instead

See the caveats in the documentation:

[https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy)

```
X['Embarked']=X['Embarked'].apply(lambda x:e[x])
```

```
0    2
1    0
2    2
3    2
4    2
```

Name: Embarked, dtype: int64

```
from sklearn.model_selection import train_test_split
X_train, X_test, Y_train, Y_test =
train_test_split(X,Y,test_size=0.3,random_state=7)
```

```
from sklearn.linear_model import LogisticRegression
model = LogisticRegression()
model.fit(X_train,Y_train)
Y_pred = model.predict(X_test)
```

```
from sklearn.metrics import accuracy_score
print("Accuracy Score:",accuracy_score(Y_test,Y_pred))
```

Accuracy Score: 0.7574626865671642

```
from sklearn.metrics import accuracy_score,confusion_matrix
confusion_mat = confusion_matrix(Y_test,Y_pred)
print(confusion_mat)
```

```
[[130  26]
 [ 39  73]]
```

```
from sklearn.svm import SVC
model1 = SVC()
model1.fit(X_train,Y_train)
```

```
pred_y = model1.predict(X_test)
```

```
from sklearn.metrics import accuracy_score
print("Acc=",accuracy_score(Y_test,pred_y))
```

Acc= 0.6604477611940298

```

from sklearn.metrics import
accuracy_score,confusion_matrix,classification_report
confusion_mat = confusion_matrix(Y_test,pred_y)
print(confusion_mat)
print(classification_report(Y_test,pred_y))

```

```

[[149  7]
 [ 84 28]]

```

	precision	recall	f1-score	support
0	0.64	0.96	0.77	156
1	0.80	0.25	0.38	112
accuracy			0.66	268
macro avg	0.72	0.60	0.57	268
weighted avg	0.71	0.66	0.61	268

```

from sklearn.neighbors import KNeighborsClassifier
model2 = KNeighborsClassifier(n_neighbors=5)
model2.fit(X_train,Y_train)
y_pred2 = model2.predict(X_test)

```

```

from sklearn.metrics import accuracy_score
print("Accuracy Score:",accuracy_score(Y_test,y_pred2))

```

Accuracy Score: 0.6492537313432836

```

from sklearn.metrics import
accuracy_score,confusion_matrix,classification_report
confusion_mat = confusion_matrix(Y_test,y_pred2)
print(confusion_mat)
print(classification_report(Y_test,y_pred2))

```

```

[[126 30]
 [ 64 48]]

```

	precision	recall	f1-score	support
0	0.66	0.81	0.73	156
1	0.62	0.43	0.51	112
accuracy			0.65	268
macro avg	0.64	0.62	0.62	268
weighted avg	0.64	0.65	0.64	268

```

from sklearn.naive_bayes import GaussianNB
model3 = GaussianNB()
model3.fit(X_train,Y_train)
y_pred3 = model3.predict(X_test)

```

```
from sklearn.metrics import accuracy_score
print("Accuracy Score:", accuracy_score(Y_test, y_pred3))
```

Accuracy Score: 0.7686567164179104

```
from sklearn.metrics import
accuracy_score, confusion_matrix, classification_report
confusion_mat = confusion_matrix(Y_test, y_pred3)
print(confusion_mat)
print(classification_report(Y_test, y_pred3))
```

```
[[129  27]
 [ 35  77]]
```

	precision	recall	f1-score	support
0	0.79	0.83	0.81	156
1	0.74	0.69	0.71	112
accuracy			0.77	268
macro avg	0.76	0.76	0.76	268
weighted avg	0.77	0.77	0.77	268

```
from sklearn.tree import DecisionTreeClassifier
model4 = DecisionTreeClassifier(criterion='entropy', random_state=7)
model4.fit(X_train, Y_train)
y_pred4 = model4.predict(X_test)
```

```
from sklearn.metrics import accuracy_score
print("Accuracy Score:", accuracy_score(Y_test, y_pred4))
```

Accuracy Score: 0.7201492537313433

```
from sklearn.metrics import
accuracy_score, confusion_matrix, classification_report
confusion_mat = confusion_matrix(Y_test, y_pred4)
print(confusion_mat)
print(classification_report(Y_test, y_pred4))
```

```
[[124  32]
 [ 43  69]]
```

	precision	recall	f1-score	support
0	0.74	0.79	0.77	156
1	0.68	0.62	0.65	112
accuracy			0.72	268
macro avg	0.71	0.71	0.71	268
weighted avg	0.72	0.72	0.72	268

```

results = pd.DataFrame({
    'Model': ['Logistic Regression', 'Support Vector Machines', 'Naive
Bayes', 'KNN' , 'Decision Tree'],
    'Score': [0.75,0.66,0.76,0.66,0.74]})

result_df = results.sort_values(by='Score', ascending=False)
result_df = result_df.set_index('Score')
result_df.head(9)

```

	Model
Score	
0.76	Naive Bayes
0.75	Logistic Regression
0.74	Decision Tree
0.66	Support Vector Machines
0.66	KNN