impor important impo	rt nandas as pd rt marplorlib.pyplot as plt rt seaborn as sros pd.read_csv('C:\\Users\\Anirudh\Downloads\\titanic train.csv') Passengerd Survived Polas Name Sex Age SibS Parch Ticket Fare Cabin Embarked 1
0 1 2 3 4 413 414 415 416 417	Passengerid Pclass Name Sex Age SibSp Parch Ticket Fave Cabin Embarked 892 33 Milkes, Mrs. James (Ellen Needs) male 3.5 0 1 330911 7.8292 NaN Q 893 33 Wilkes, Mrs. James (Ellen Needs) male 6.2 1 9.6875 NaN Q 894 2 Myles, Mr. Thomas Francis male 6.2 0 0 240276 9.6875 NaN Q 895 3 Hirvonen, Mrs. Alexander (Helga E Lindqvist) female 2.0 1 31301298 12.2875 NaN S 1305 3 Spector, Mr. Woolf male NaN 0 0 A.5.3236 8.0500 NaN S 1305 3 Spector, Mr. Woolf male NaN 0 0 A.5.3236 8.0500 NaN S 1307 3 Spector, Mr. Frederick male NaN 0 0
defau df. Out[4]: Passer Sun F In [5]: plt.f sns.h # Opt	Passengerid Survived Pclass Age SibSp Parch Pclass -0.005007 -0.005007 -0.005144 -0.038481 -0.077221 -0.035124 -0.08647
# Dis plt.s C:\Us defau sns In [6]:	Table ("Correlation Heatmap") analys of pilot from () analys of pilot analyses from () analyses from () analyses analyses from () analyses a
Out[7]: 0 In [8]: df['A Out[8]: 177 In [9]: df['A In [10]: df['A Out[10]: 0 In [11]: df['S In [12]: df['S Out[12]: 0 In [15]: df['P Out[15]: array In [16]: df['E Out[16]: df['E	Polass'].isna().sum() Age'] = df['Age'].fillna(df['Age'].mean()) Age'] = df['Sex'].fillna(df['Sex'].mode()) Sex'] = df['Sex'].fillna(df['Sex'].mode()) Sex'].isnull().sum() Parch'].unique() (([6, 1, 2, 5, 3, 4, 6], dtype=int64) Simbarked'] = df['Embarked'].fillna(df['Embarked'].mode())
Out[18]: 0 In [42]: df=df In [43]: df1[' Out[43]: 0 In [44]: df1[' Out[44]: array In [45]: df1[' Out[45]: 0 In [46]: df1[' Out[46]: 0 In [48]: df1[' Out[48]: 0 In [49]: df1[' Out[49]: array In [50]: df1[' Out[51]: 0 In [53]: df1['	
Out[54]: 0 In [55]: df1[' Out[55]: 0 In [56]: from In [57]: label In [58]: df["S df Out[58]: S 0 1 2 3 4 886 887 888 889 890 891 rov	Embarked
0 1 2 3 4 886 887 888 889 890 891 rov In [60]: df1["df1	Service Polars Service Polars Service Service
In [61]: x_tra x_t	3 mule 3 027259 0 0 8.0500 0 0 0 108.0000 0 0 108.0000 0 0 108.0000 0 0 108.0000 0 0 108.0000 0 0 108.0000 0 0 108.0000 0 0 108.0000 0 0 108.0000 0 0 108.0000 0 0 108.0000 0 0 108.0000 0 1 2 2.3583 0 0 108.0000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 7.2500 0 2 1 108.00000 0 1 108.000000 0 1 108.000000 0 1 108.000000 0 1 108.000000 0 1 108.0000000 0 1 108.0000000000
<pre>y_tra Out[62]: 0 1 2 3 4 886 887 888 889 890 Name: In [63]: y_tra Out[63]:</pre>	ain = df.iloc[:,0] 0
In [69]: df1	Seders Law In Seders In Se
In [70]: df1["df1" Out[70]: F 0 1 2 3 4 413 414 415 416 417	"Sex" = label_encoder.fit_transform(df1["Sex"]) Pclas Sex Age SibSp Fare Embarked 3 1 34.5000 0 7.8292 1 3 0 47.0000 1 7.0000 2 2 1 62.0000 0 9.6875 1 3 1 27.0000 0 8.6625 2 3 0 22.0000 1 12.2875 2 3 0 27.0000 0 8.0500 2 4 1 0 39.0000 0 108.9000 0 3 1 30.27259 0 8.0500 2 3 1 30.27259 0 8.0500 2 3 1 30.27259 1 22.3583 0
In [71]: df1 Out[71]: F 0 1 2 3 4 413 414 415 416 417	Pelas Sex Age ShSp Fare Embarked 3 1 34.50000 0 7.8292 11 3 0 47.00000 1 7.00000 1 7.00000 0 9.6875 11 3 1 27.00000 0 0 8.6625 22 3 1 3 0.27259 0 8.0500 22 1 1 0 3 9.00000 0 1 10.82900 0 0 0 8.0000 0 0 0 0 0 0 0 0 0 0 0 0
x_tes Out[72]: F 0 1 2 3 4 413 414 415 416 417	Peckas Sex Age SibSy Fare Embarked 3 1 34,50000 0 7.8292 1 3 0 47,0000 1 7.0000 2 2 1 62,0000 0 9,6875 1 3 1 27,0000 0 8,6625 2 4 0 2,0000 1 1,2875 2 3 1 30,27259 0 8,0500 2 4 1 30,27259 0 8,0500 2 3 1 30,27259 1 2,23583 0
In [73]: from lr = lr = y_pre y_pre y_pre out[73]: array In [74]: from # Che	([0, 0, 0, 0, 1, 0, 1, 0, 1, 0, 0, 0, 1, 1, 1, 0, 0, 0, 1, 1, 0, 0, 1, 1, 0, 0, 1, 1, 1, 0, 0, 1, 1, 1, 0, 1, 1, 0, 1, 1, 0, 1, 1, 0, 1, 1, 0, 1, 1, 0, 1, 1, 0, 1, 1, 0, 1, 1, 0, 0, 0, 0, 1, 0, 1, 1, 1, 1, 0, 1, 1, 0, 1, 1, 0, 1, 1, 0, 1, 1, 1, 1, 0, 1, 1, 1, 0, 1, 0, 0, 0, 0, 0, 0, 1, 1, 1, 1, 1, 0, 1, 1, 1, 1, 0, 1, 1, 1, 0, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 1, 0, 1, 1, 1, 0, 1, 0, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
# If if y_ y # Cal score print (1098 (418, Accur In [75]: from dt = dt = ypr = ypr	
# Che print print # If if y_ y # Cal score print (1098	1, 0, 0, 1, 1, 0, 0, 0, 1, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
<pre>(418,</pre>	sklearn.ensemble import RandomForestClassifier RandomForestClassifier(n_estimators=100) rf.fit(x_train_resampled,y_train_resampled) = rf.predict(x_test)