Name: Umesh Mali Div:- A Roll No: 43

Practical No:- 8

1.Use the inbuilt dataset 'titanic'. The dataset contains 891 rows and contains information about the passengers who boarded the unfortunate Titanic ship. Use the Seaborn library to see if we can find any patterns in the data.

Write a code to check how the price of the ticket (column name: 'fare') for each passenger is distributed by plotting a histogram.

import pandas as pd import numpy as np import matplotlib.pyplot as plt import seaborn as sns import warnings warnings.filterwarnings('ignore') df = sns.load_dataset('titanic') Out[3]: df.head() survived pclass embarked sibsp parch adult male embark_town alive sex age fare class who deck alone 0 0 22.0 0 7.2500 S Third True NaN Southampton False male man no 1 71.2833 female 38.0 С First woman False С Cherbourg yes False 2 female 26.0 7.9250 S Third False NaN Southampton True woman 3 35.0 S First С yes female 53.1000 woman False Southampton False 4 0 male 35.0 8.0500 S Third man True NaN Southampton True no df.info() <class 'pandas.core.frame.DataFrame'> RangeIndex: 891 entries, 0 to 890 Data columns (total 15 columns): Non-Null Count Dtype Column # 0 891 non-null survived int64 1 pclass 891 non-null int64 2 891 non-null sex object 3 age 714 non-null float64 sibsp 891 non-null int64 5 parch 891 non-null int64 6 fare 891 non-null float64 embarked 7 889 non-null object 8 891 class non-null category 9 891 non-null who object 10 adult_male 891 non-null bool

dtypes: bool(2), category(2), float64(2), int64(4), object(5) memory usage: 80.7+ KB

category

object

object

bool

203

889

non-null

non-null

891 non-null

891 non-null

df.shape

11 deck

12

13

14

embark_town

alive

alone

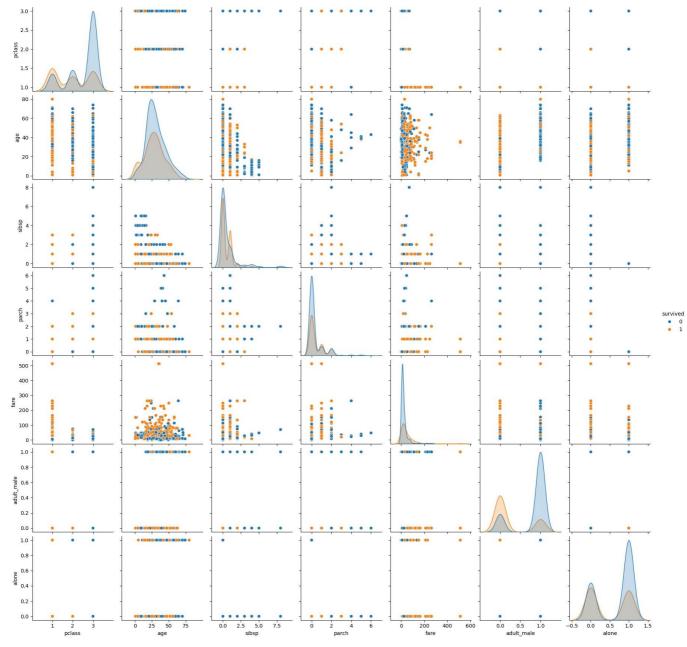
Out[5]: (891, 15)

df.size

Out[6]: 13365

1) Use the inbuilt dataset 'titanic'. The dataset contains 891 rows and contains information about the passengers who boarded the unfortunate Titanic ship. Use the Seaborn library to see if we can find any patterns in the data.

sns.pairplot(df , hue = 'survived') plt.show()



People who paid high fare had slightly more chance of survival also people who where younger had slightly more chance of survival

2) Write a code to check how the price of the ticket (column name: 'fare') for each passenger is distributed by plotting a histogram.

