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Roll No: 21119

Subject: Software Laboratory III (DATA SCIENCE)

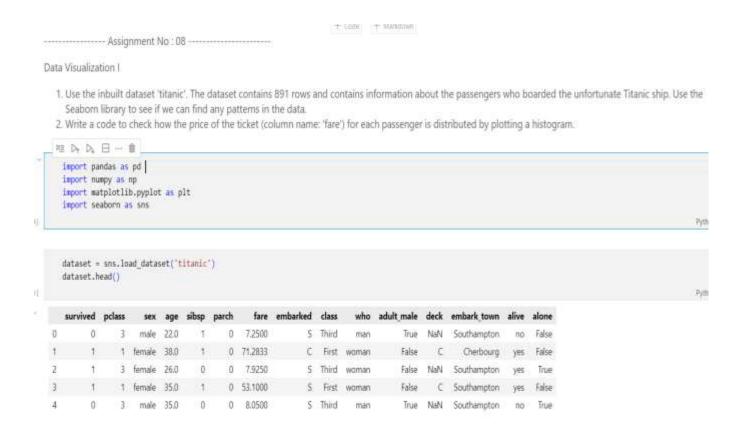
Assignment No: 08

Problem statement:

Data Visualization I

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

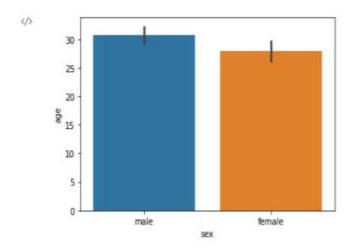
CODE:



sns.barplot(x='sex',y='age',data=dataset)

[6]

<AxesSubplot:xlabel='sex', ylabel='age'>



sns.catplot(x='sex',hue='survived',kind='count',data=dataset)

-- <seaborn.axisgrid.FacetGrid at 0x22c4f462370>

survived survived of the second survived of the second survived of the second s

```
sns.histplot(data=dataset ,x='fare')

- <Axessubplot:xlabel='fare', ylabel='Count'>

300
250
250
300
450
150
```

sns.histplot(data=dataset ,x='fare',binwidth=30)
[9]

500

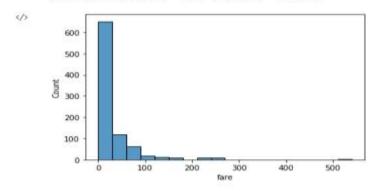
... <AxesSubplot:xlabel='fare', ylabel='Count'>

200

300

400

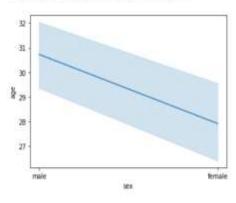
100



sns.lineplot(data=dataset,x='sex',y='age')

cAxesSubplot:xlabel='sex', ylabel='age'>

100



--> Shivam Borse