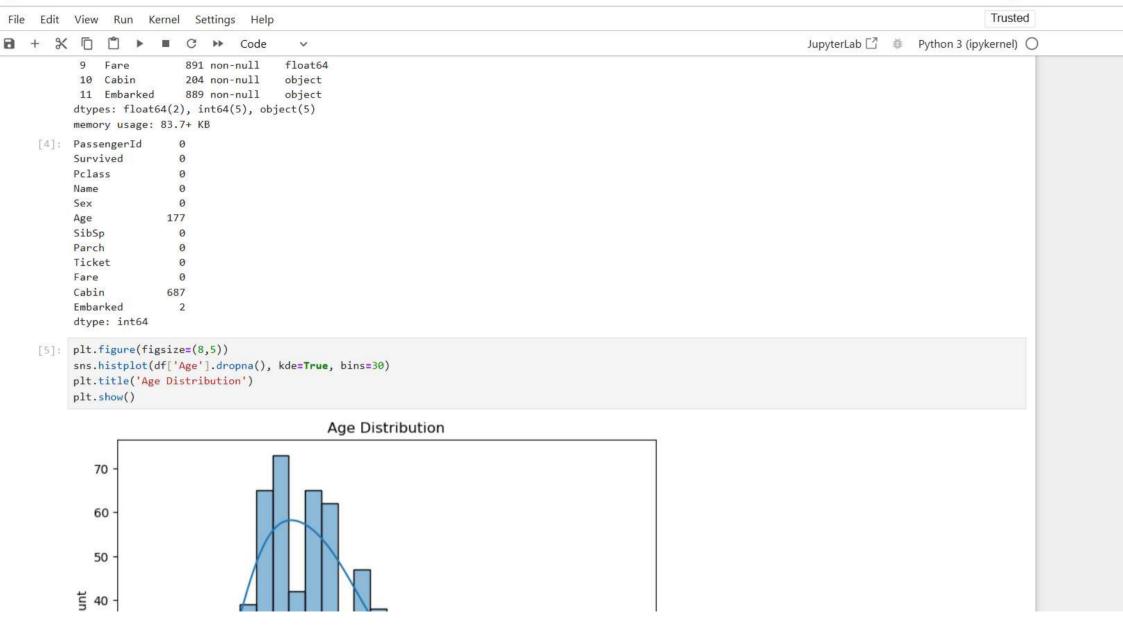
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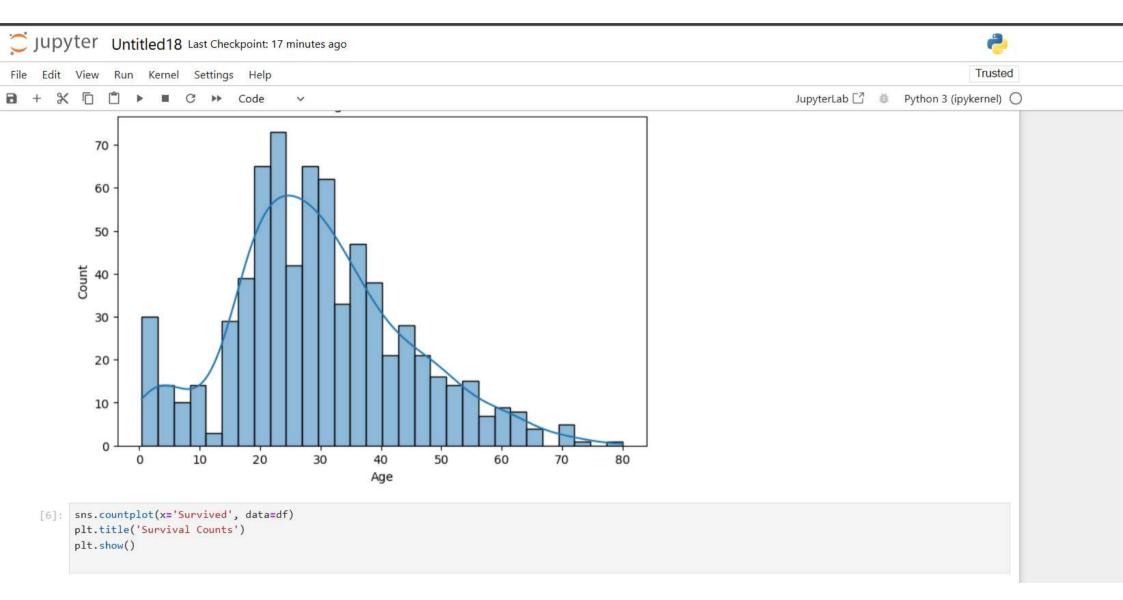


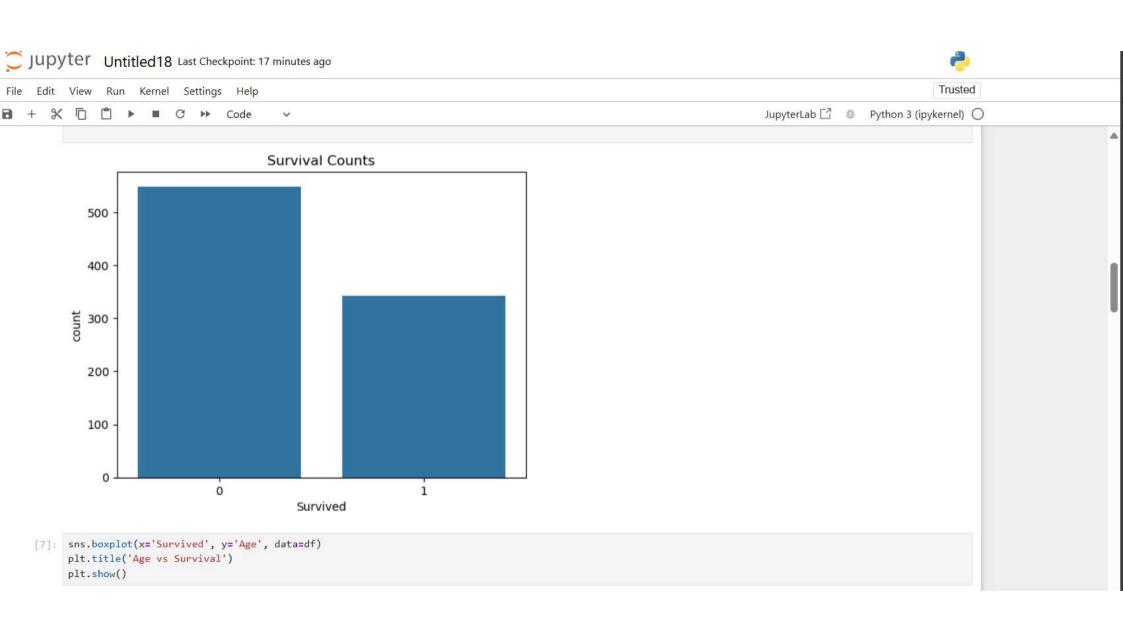
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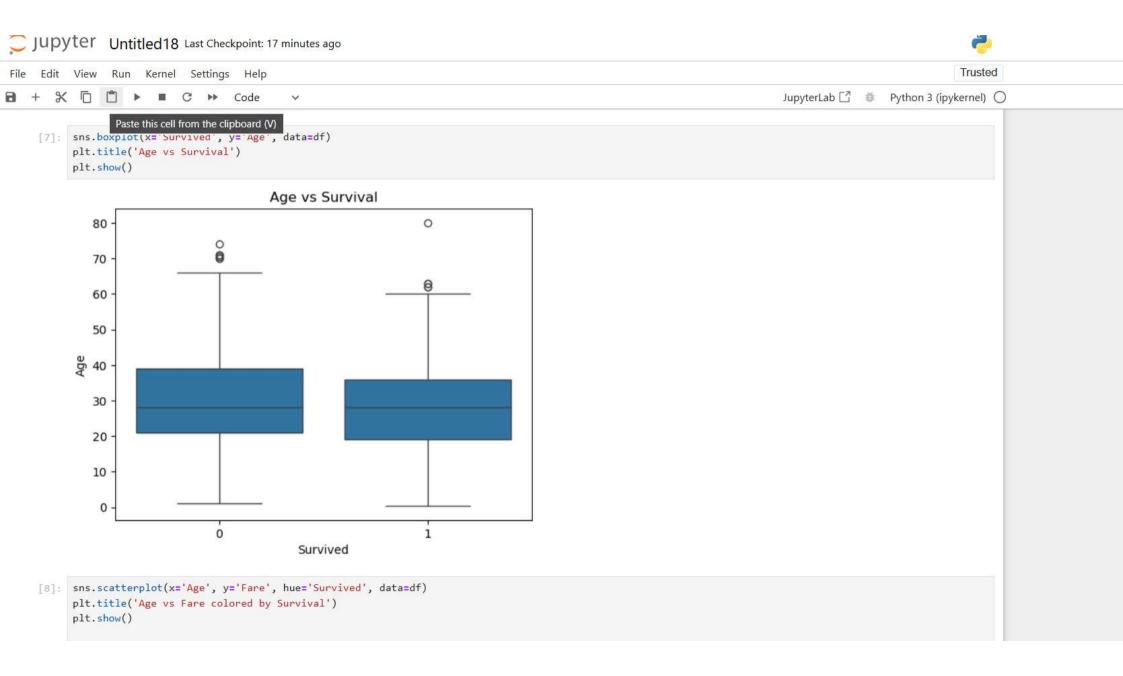
```
X 🗈
                                                                                                                          JupyterLab ☐ # Python 3 (ipykernel) ○
[1]: import pandas as pd
      import numpy as np
      import matplotlib.pyplot as plt
      import seaborn as sns
      %matplotlib inline
[3]: df = pd.read csv("C:/Users/RAMCHARAN/Downloads/train.csv")
[4]: df.head()
     df.info()
     df.describe()
     df.isnull().sum()
      <class 'pandas.core.frame.DataFrame'>
      RangeIndex: 891 entries, 0 to 890
      Data columns (total 12 columns):
                       Non-Null Count Dtype
          Column
          PassengerId 891 non-null
                                       int64
          Survived
                       891 non-null
                                       int64
          Pclass
                       891 non-null
                                       int64
                       891 non-null
                                       object
      3
          Name
                       891 non-null
                                       object
          Sex
                       714 non-null
                                       float64
          Age
          SibSp
                       891 non-null
                                       int64
                       891 non-null
                                       int64
          Parch
                       891 non-null
                                       object
          Ticket
                       891 non-null
      9
          Fare
                                       float64
      10 Cabin
                       204 non-null
                                       object
      11 Embarked
                       889 non-null
                                       object
      dtypes: float64(2), int64(5), object(5)
```



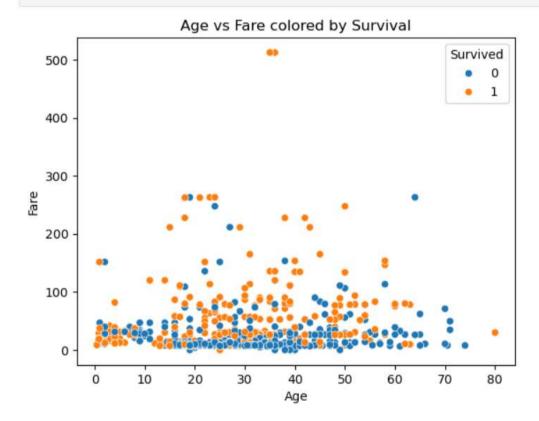








```
[8]: sns.scatterplot(x='Age', y='Fare', hue='Survived', data=df)
plt.title('Age vs Fare colored by Survival')
plt.show()
```



```
9]: pd.crosstab(df['Sex'], df['Survived']).plot(kind='bar', stacked=True)
plt.title('Survival by Gender')
plt.show()
```

```
[9]: pd.crosstab(df['Sex'], df['Survived']).plot(kind='bar', stacked=True)
plt.title('Survival by Gender')
plt.show()
```

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