ITP 449 Project

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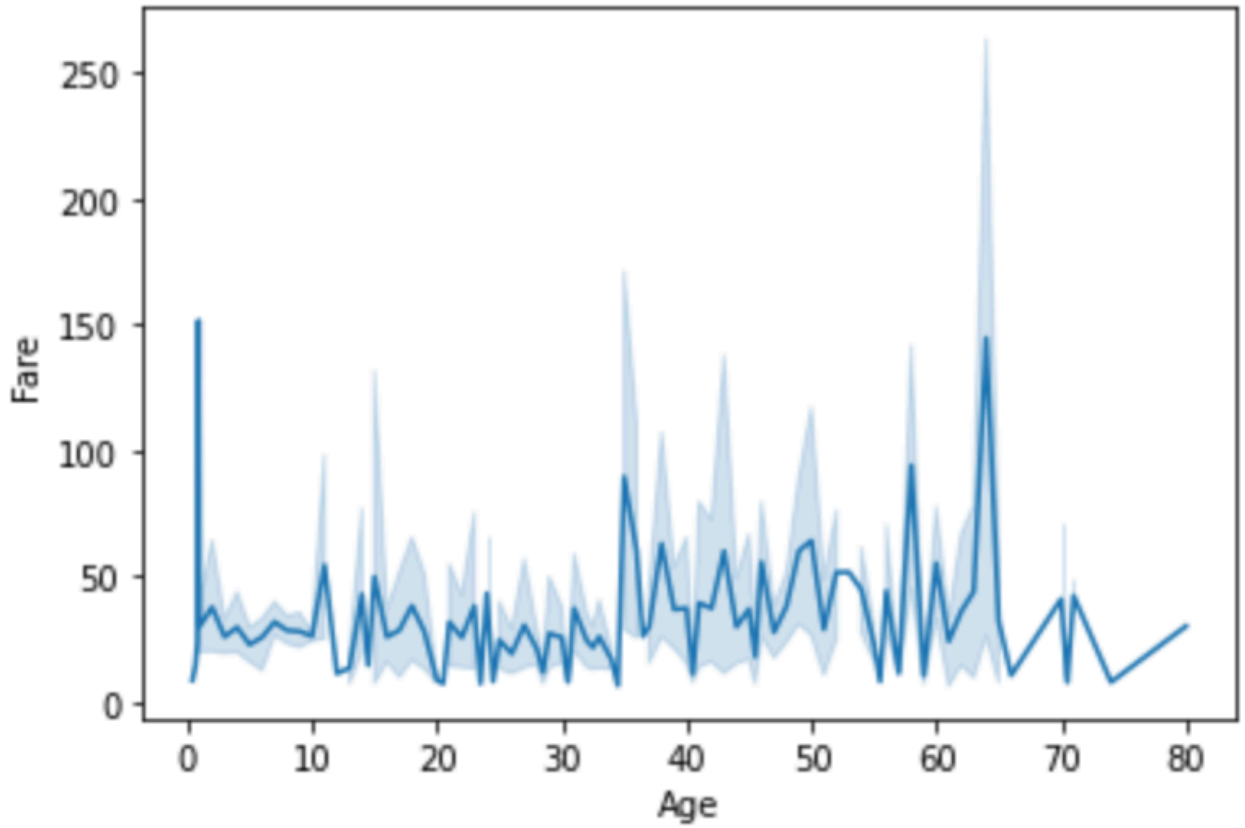
Fare vs. Age

```
sns.lineplot(x='Age',y='Fare',data=data)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7fd07f859510>
```



Fare vs. Age

- In this graph, the x-axis shows the age and the y-axis shows the number of fare. It provides a general idea of the allocation of different age groups. As we can see around age 0 and age 65, these are ages that have the greatest number of fare.

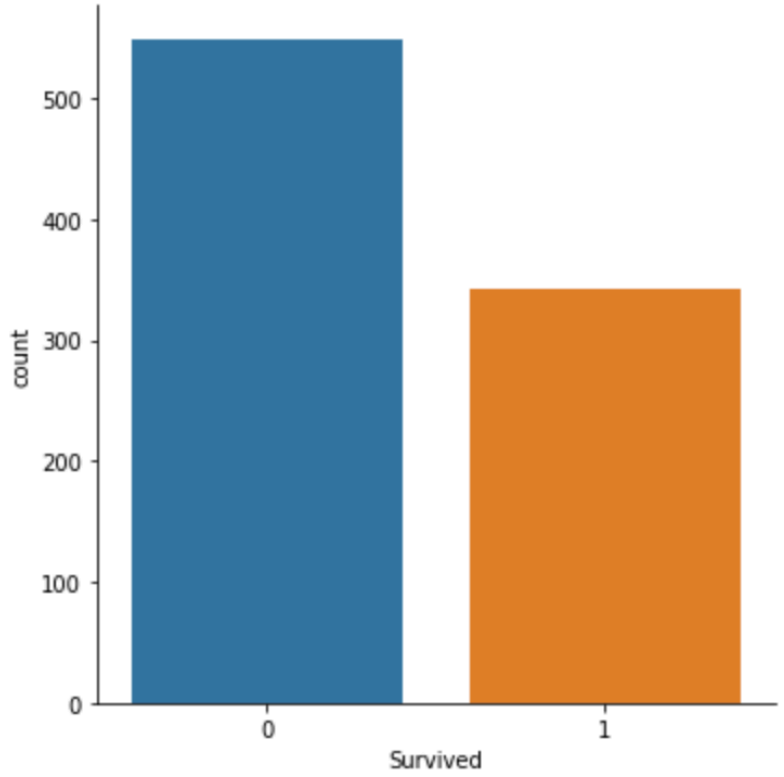
Survived vs. Count

```
sns.factorplot(x='Survived',data=data,kind = 'count')
```

```
/usr/local/lib/python3.7/dist-packages/seaborn/categorical.py:3714: UserW

The `factorplot` function has been renamed to `catplot`. The original nam

<seaborn.axisgrid.FacetGrid at 0x7fd07e6e7d10>
```



Survived vs. Count

- X-axis is the survived; y-axis shows the count. The column labelled 0 on x-axis shows the number people who is not survived, and the column labelled 1 shows the number of people who survived. There are more non-survivors than survivors.

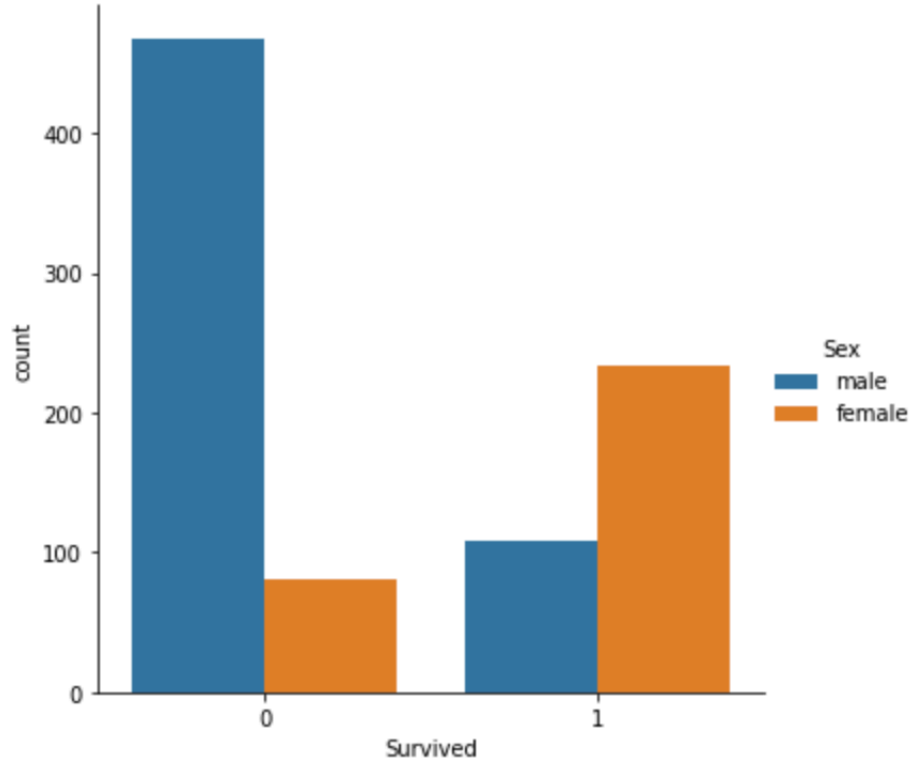
Survived vs. Count

```
sns.factorplot(x='Survived',data = data , kind = 'count', hue = 'Sex')
```

```
/usr/local/lib/python3.7/dist-packages/seaborn/categorical.py:3714: UserWarning:

The `factorplot` function has been renamed to `catplot`. The original name will b

<seaborn.axisgrid.FacetGrid at 0x7fd07df8fa90>
```



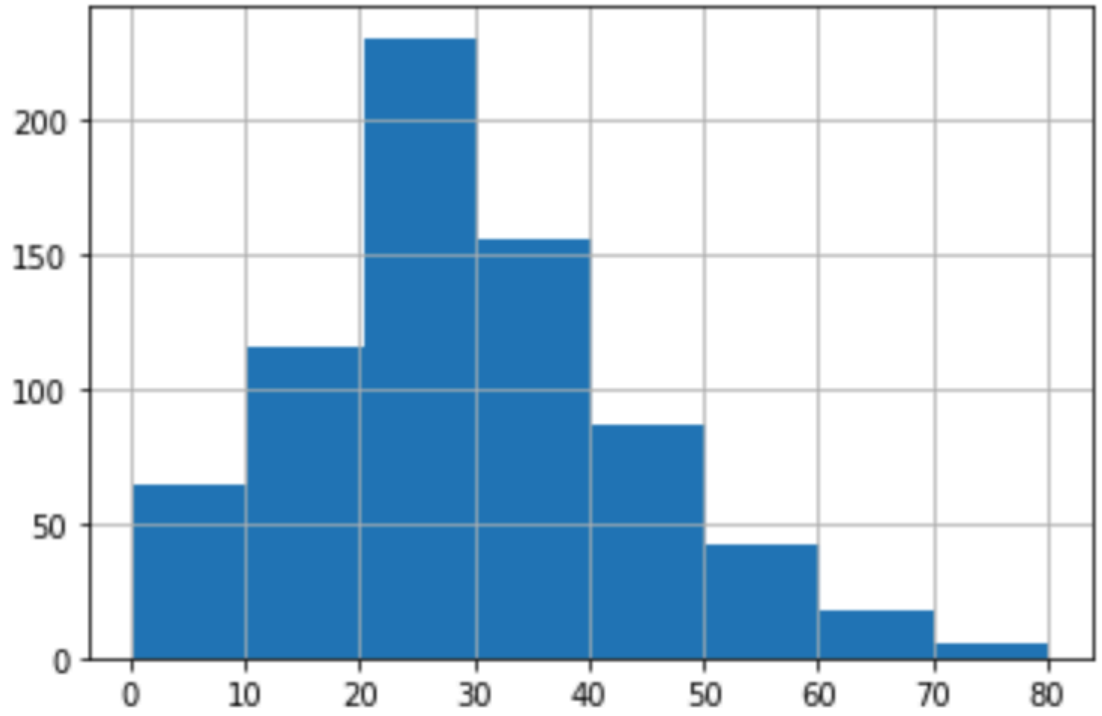
Survived vs. Count

- X-axis is the survived; y-axis shows the count. The column labelled 0 on x-axis shows the number people who is not survived, and the column labelled 1 shows the number of people who survived. The blue color shows data for males and orange color data shows the females. The are more males did not survive and more females survived within their gender.

Age vs. Count

```
[ ]  data['Age'].hist(bins=8)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7fd07c281250>
```



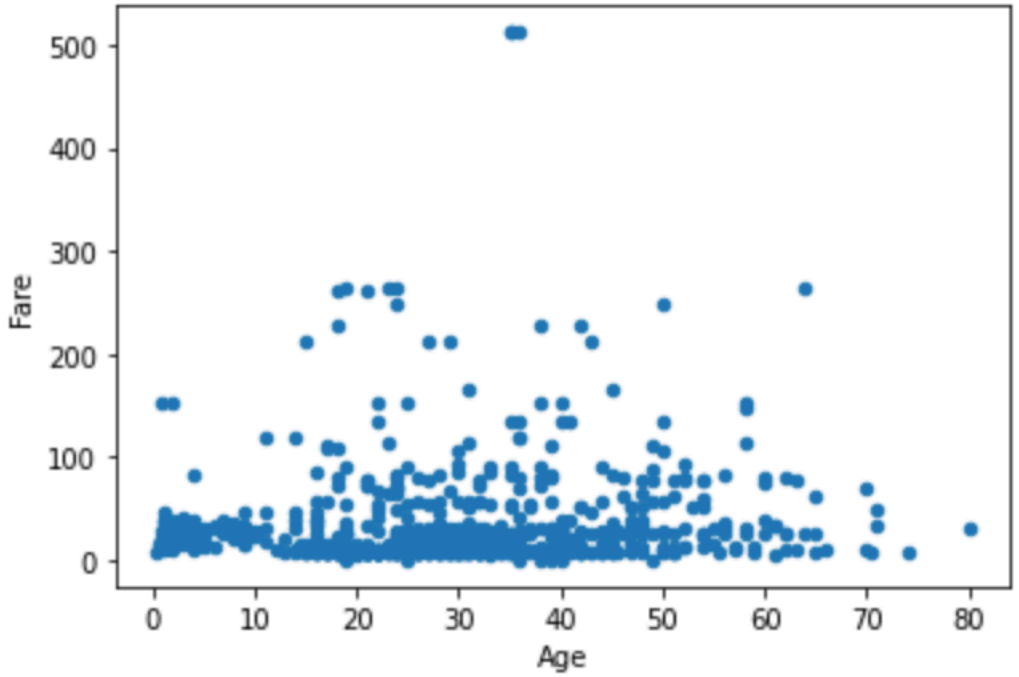
Age vs. Count

This is a histogram that shows the spread of ages. It seems mostly are people from 20-30 age group.

Age vs. Fare

```
data.plot.scatter(x='Age',y='Fare')
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7fd07e0d6850>
```



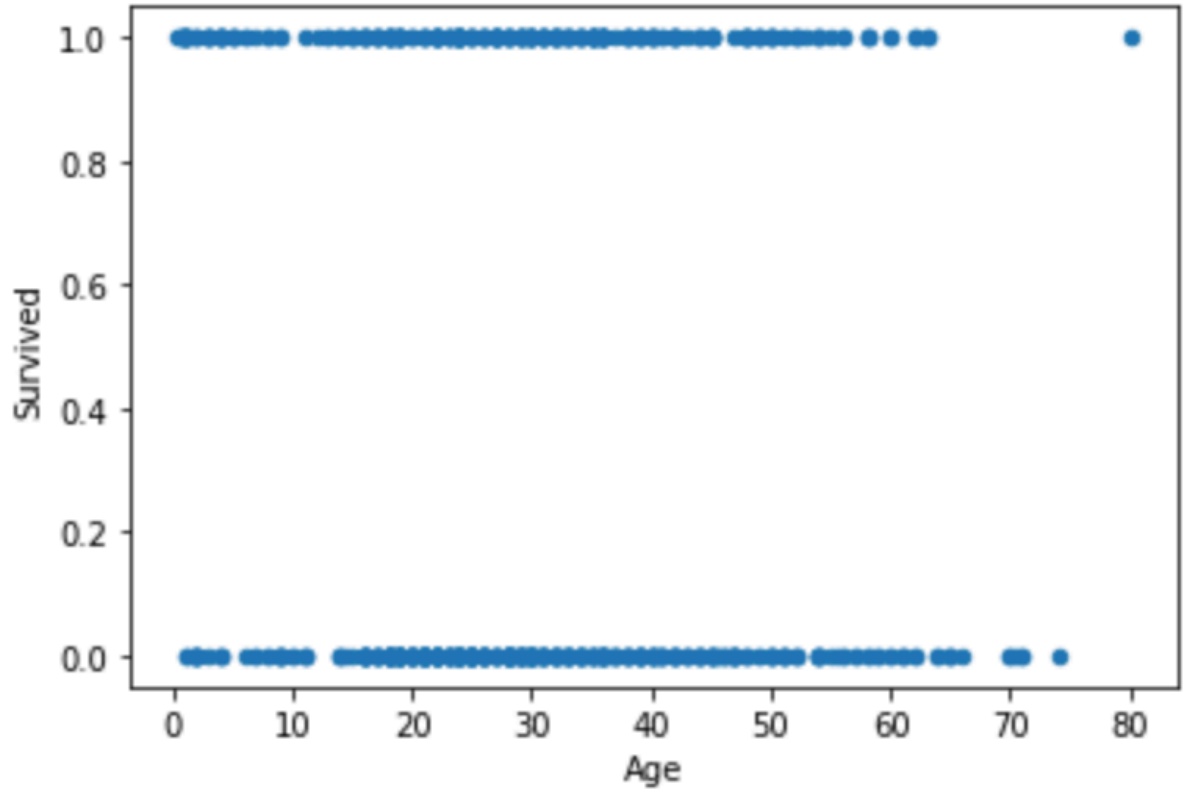
Age vs. Fare

This graph shows the allocation of fares in different ages.

Age vs. Survived

```
data.plot.scatter(x='Age',y='Survived')
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7fd07f8dcc10>
```

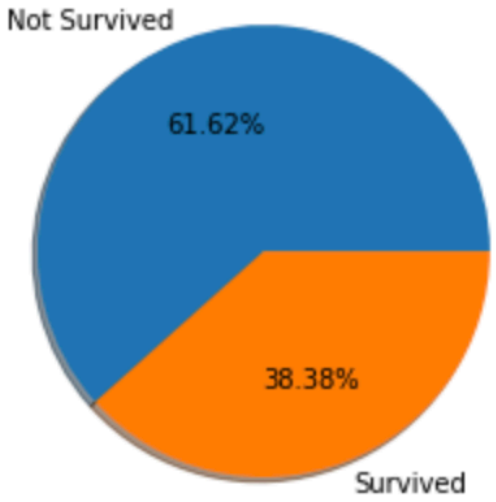


Age vs. Survived

This graph shows the allocation of survived and non-survived people in different ages.

Pie Chart of Not Survived and Survived

```
sizes = data['Survived'].value_counts()
fig , ax = plt.subplots()
ax.pie(sizes,labels = ['Not Survived','Survived'],autopct='%1.2f%%',shadow = True)
plt.show()
```



Pie Chart of Not Survived and Survived

It shows the percentage of people who survived and who did not survive. There are more people who did not survive from this disaster.