

titanic

July 30, 2021

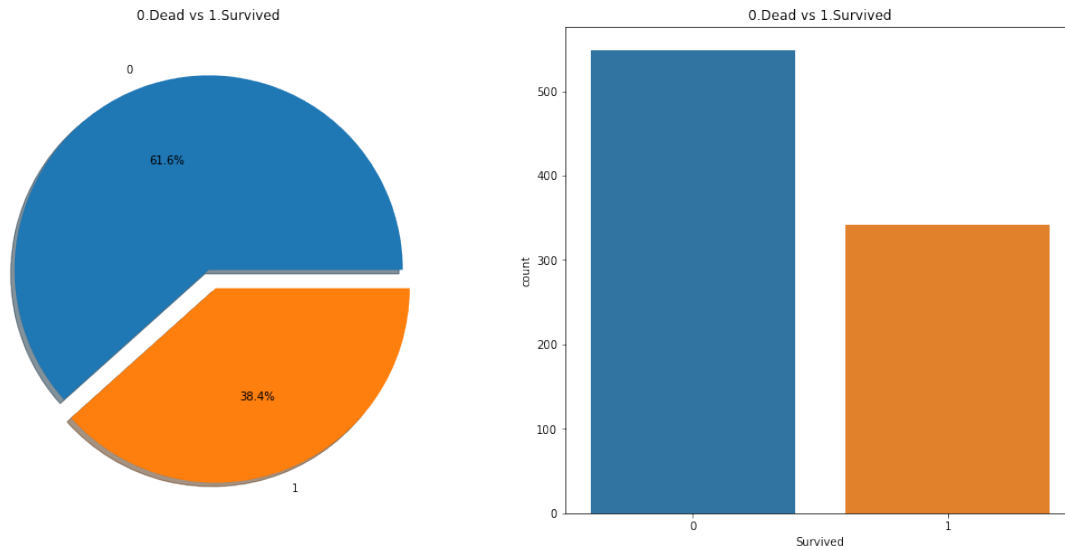
```
[1]: import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
```

```
[2]: this = pd.read_csv("data/train.csv")
```

```
[3]: f, ax = plt.subplots(1, 2, figsize= (18, 8))
series = this['Survived'].value_counts()
# print(type(series))
# print(series)
series.plot.pie(explode=[0,0.1], autopct='%1.1f%%', ax=ax[0], shadow=True)
ax[0].set_title('0.Dead vs 1.Survived')
ax[0].set_ylabel('')
ax[1].set_title('0.Dead vs 1.Survived')
sns.countplot('Survived', data=this, ax=ax[1])
```

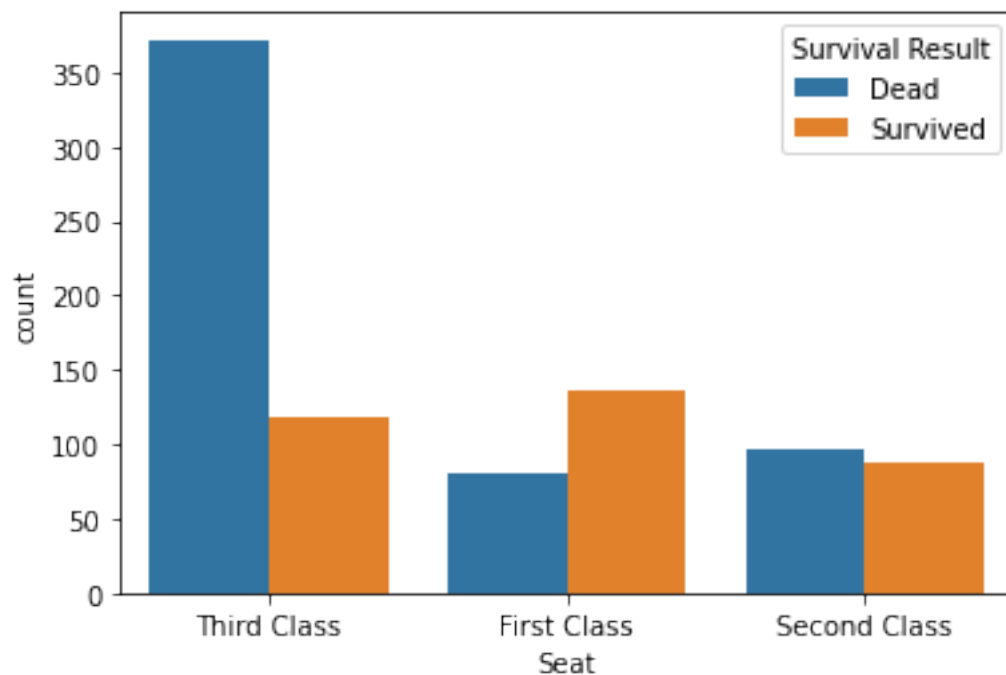
/opt/conda/lib/python3.9/site-packages/seaborn/_decorators.py:36: FutureWarning:
Pass the following variable as a keyword arg: x. From version 0.12, the only
valid positional argument will be `data`, and passing other arguments without an
explicit keyword will result in an error or misinterpretation.
warnings.warn(

```
[3]: <AxesSubplot:title={'center':'0.Dead vs 1.Survived'}, xlabel='Survived',
ylabel='count'>
```



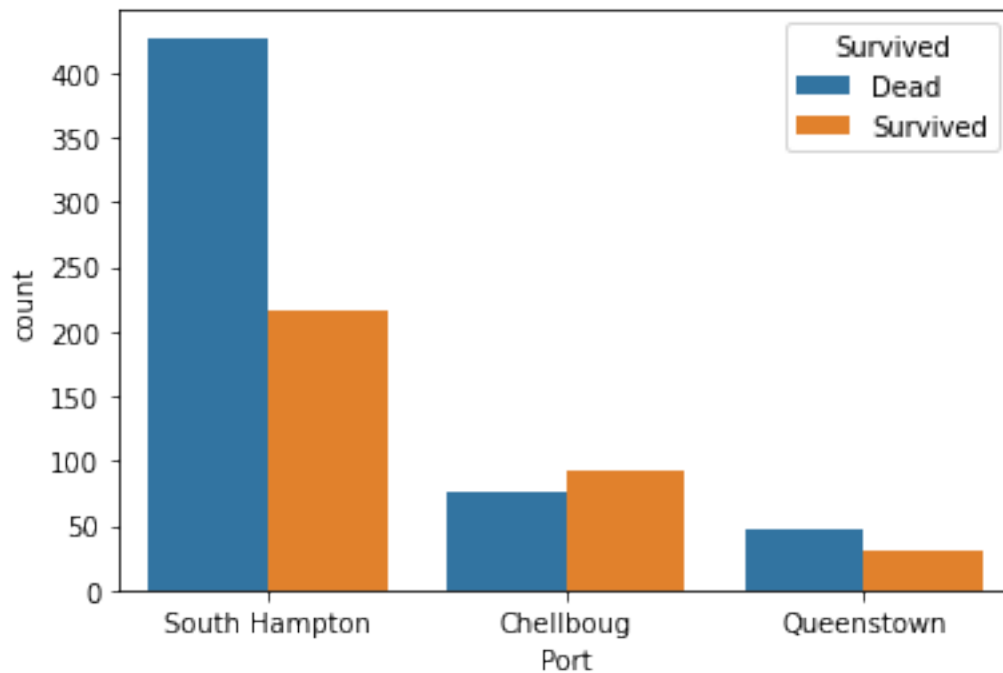
```
[4]: this['Survival Result'] = this['Survived'].replace(0,'Dead').
      ↪replace(1,'Survived')
this['Seat'] = this['Pclass'].replace(1,'First Class').replace(2,'Second_
      ↪Class').replace(3,'Third Class')
sns.countplot(data=this, x='Seat', hue='Survival Result')
```

[4]: <AxesSubplot:xlabel='Seat', ylabel='count'>



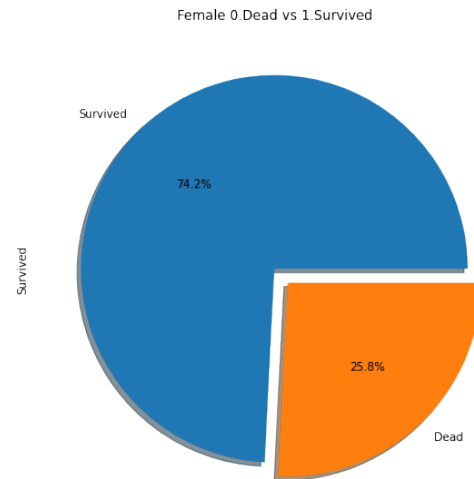
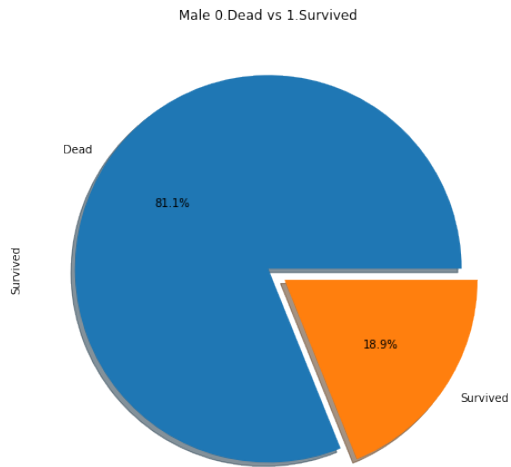
```
[5]: this['Survived'] = this['Survived'].replace(0, 'Dead').replace(1, 'Survived')
this['Port'] = this['Embarked'].replace("C", "Chellboug").replace("S", "South_
↳Hampton").replace("Q", "Queenstown")
sns.countplot(data=this, x='Port', hue='Survived')
```

```
[5]: <AxesSubplot:xlabel='Port', ylabel='count'>
```



```
[6]: f, ax = plt.subplots(1, 2, figsize= (18, 8))
male_series = this['Survived'][this['Sex'] == 'male'].value_counts()
female_series = this['Survived'][this['Sex'] == 'female'].value_counts()
male_series.plot.pie(explode=[0, 0.1], autopct='%1.1f%%', ax=ax[0], shadow=True)
female_series.plot.pie(explode=[0, 0.1], autopct='%1.1f%%', ax=ax[1],
↳shadow=True)
ax[0].set_title('Male 0.Dead vs 1.Survived')
ax[1].set_title('Female 0.Dead vs 1.Survived')
```

```
[6]: Text(0.5, 1.0, 'Female 0.Dead vs 1.Survived')
```



[]: