

# The Titanic

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DATA VISUALISATION WITH SEABORN

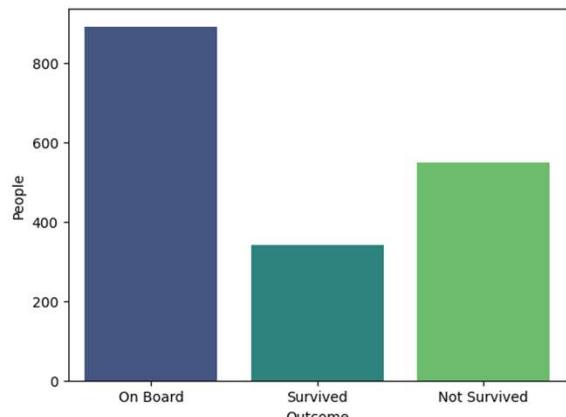
Burhan

Sparta Education

Jan 2025

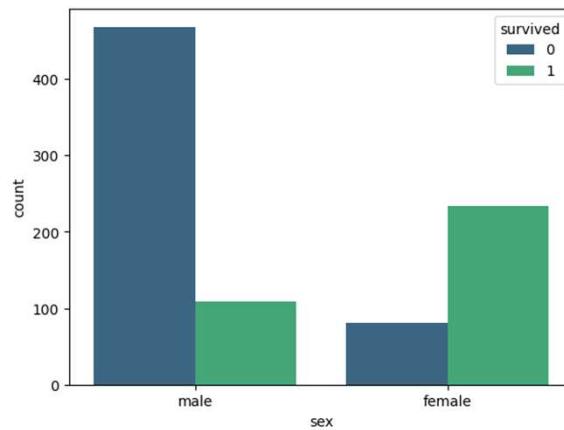


# Visualizations



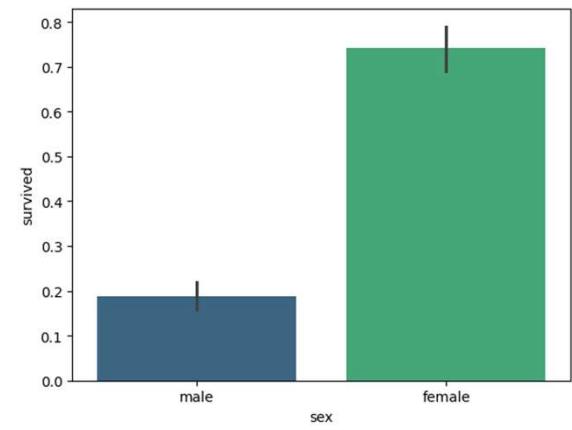
**Shows the survival rate of 890 individuals on the ship as a bar chart.**

```
titanic = sns.load_dataset('titanic')
total_on_board = len(titanic)
survived = titanic['survived'].sum()
not_survived = total_on_board - survived
data = {
    'Outcome': ['On Board', 'Survived', 'Not Survived'],
    'People': [total_on_board, survived, not_survived]
}
sns.barplot(
    data=data,
    x='Outcome',
    y='People',
    palette='viridis'
```



**Shows the survival rate of men compared to women in absolute numbers as a bar chart.**

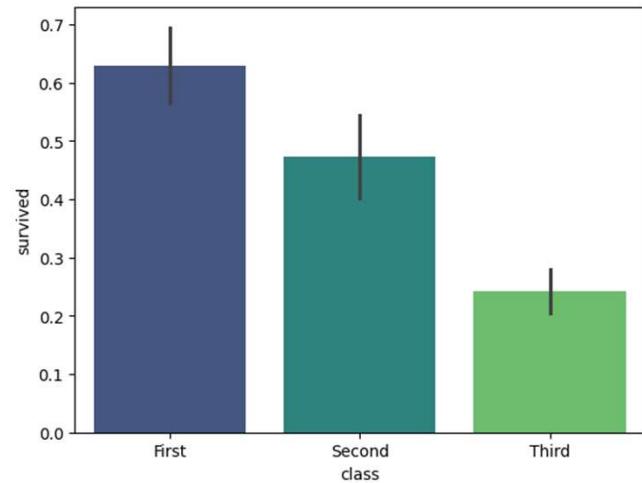
```
titanic = sns.load_dataset('titanic')sns.barplot(
    data=titanic, x='class', y='survived',
    estimator='mean', palette='viridis')
```



**Shows the survival rate of men compared to women as a bar chart.**

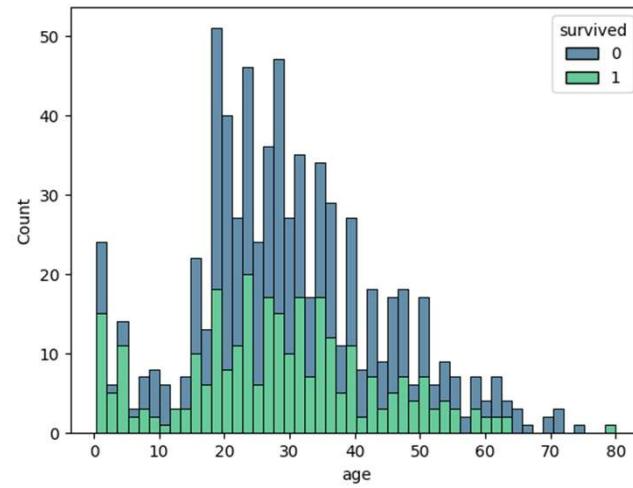
```
import seaborn as sns
titanic = sns.load_dataset('titanic')
sns.barplot(
    data=titanic,
    x='sex',
    y='survived',
    estimator='mean',
    palette='viridis'
)
```

# Visualizations



Survival by ticket classification presented as a bar chart.

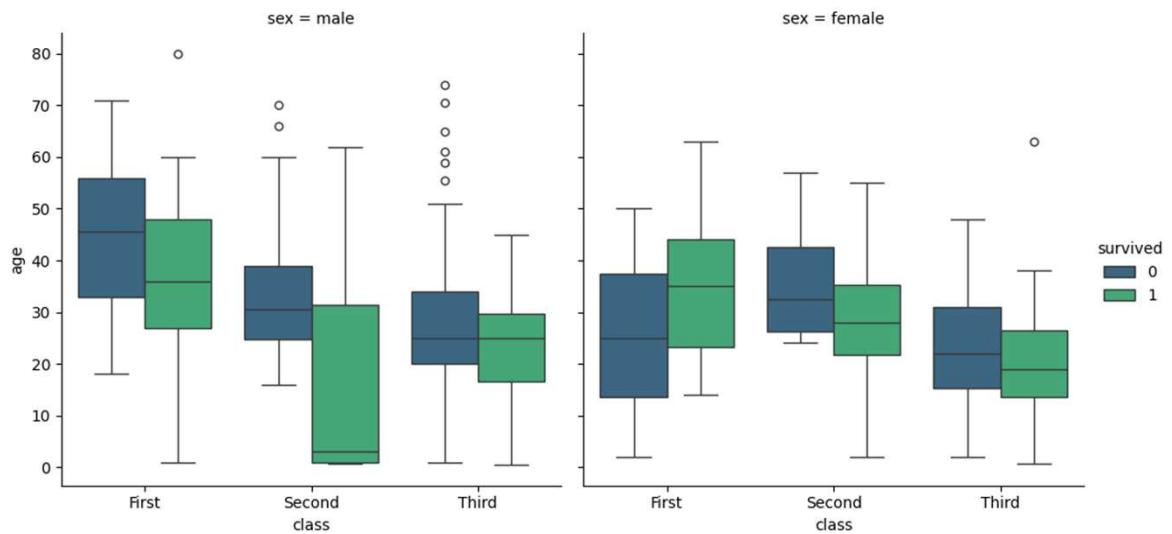
```
titanic = sns.load_dataset('titanic')
sns.barplot(
    data=titanic,
    x='class',
    y='survived',
    estimator='mean',
    palette='viridis'
)
```



Survival by age as a histogram distribution.

```
titanic = sns.load_dataset('titanic')
sns.histplot(
    data=titanic,
    x='age',
    hue='survived',
    multiple='stack',
    palette='viridis',
    bins=50
)
```

# Visualizations



**The relationship between sex, class, and age as a box plot.**

```
sns.catplot(  
    data=titanic,  
    x='class',  
    y='age',  
    hue='survived',  
    col='sex',  
    kind='box',  
    palette='viridis'  
)
```



# THANK YOU

Any questions



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