

Home x TitanicEDA x +

localhost:8888/notebooks/TitanicEDA.ipynb

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JupyterLab Python 3 (ipykernel)

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

# Set default Seaborn style
sns.set(style="whitegrid")

[3]: # Load Titanic dataset
df = pd.read_csv('Downloads/Extract file/Titanic.csv') # Make sure Titanic.csv is in the same directory

# Display the first few rows
df.head()
```

| | PassengerId | Pclass | Name | Sex | Age | SibSp | Parch | Ticket | Fare | Embarked | Survived |
|---|-------------|--------|-----------------|--------|-----|-------|-------|--------------------------------------|--------|----------|----------|
| 0 | 1 | 3 | Allison Hill | male | 17 | 4 | 2 | 43d75413-a939-4bd1-a516-b0d47d3572cc | 144.08 | Q | 1 |
| 1 | 2 | 1 | Noah Rhodes | male | 60 | 2 | 2 | 6334fa2a-8b4b-47e7-a451-5ae01754bf08 | 249.04 | S | 0 |
| 2 | 3 | 3 | Angie Henderson | male | 64 | 0 | 0 | 61a66444-e2af-4629-9efb-336e2f546033 | 50.31 | Q | 1 |
| 3 | 4 | 3 | Daniel Wagner | male | 35 | 4 | 0 | 0b6c03c8-721e-4419-afc3-e6495e911b91 | 235.20 | C | 1 |
| 4 | 5 | 1 | Cristian Santos | female | 70 | 0 | 3 | 436e3c49-770e-49db-b092-d40143675d58 | 160.17 | C | 1 |

```
[4]: # Basic structure
df.info()

# Statistical summary
df.describe(include='all')

<class 'pandas.core.frame.DataFrame'>
```

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```
[6]: # Value counts for categorical columns
for col in df.select_dtypes(include='object').columns:
    print(f"Value counts for {col}:\n")
    print(df[col].value_counts(), "\n")
```

Value counts for Name:

| Name | |
|-------------------|---|
| Michael Miller | 2 |
| Jessica Smith | 2 |
| David Davis | 2 |
| Elizabeth Mendez | 2 |
| Matthew Moore | 2 |
| .. | |
| David Thompson | 1 |
| Allison Smith | 1 |
| Cynthia Morris | 1 |
| Anthony Harmon | 1 |
| Elizabeth Sanders | 1 |

Name: count, Length: 995, dtype: int64

Value counts for Sex:

| Sex | |
|--------|-----|
| male | 527 |
| female | 473 |

Sex: count, dtype: int64

Value counts for Ticket:

| Ticket | |
|--------------------------------------|---|
| 43d75413-a939-4bd1-a516-b0d47d3572cc | 1 |
| 05aa5eab-88f3-47ea-b83f-52740cb4afe1 | 1 |
| 3ff93134-650e-48e4-afe6-33f18f807d8b | 1 |
| a55fa725-bcb3-4168-b706-2cfa29cc0789 | 1 |



