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# ------------------------------------------------------
# Plot Histograms, Boxplots, and Scatterplots
# ------------------------------------------------------
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
from google.colab import files

uploaded = files.upload()
train = pd.read_csv("train.csv")

# ✅ Histogram – Age Distribution
plt.figure(figsize=(6,4))
sns.histplot(train['Age'], kde=True, color='skyblue', bins=30)
plt.title("Age Distribution")
plt.show()

# ✅ Boxplot – Fare by Passenger Class
plt.figure(figsize=(6,4))
sns.boxplot(x='Pclass', y='Fare', data=train)
plt.title("Boxplot: Fare by Passenger Class")
plt.show()

# ✅ Scatterplot – Age vs Fare
```

Choose Files train.csv

train.csv(text/csv) - 61194 bytes, last modified: 10/28/2025 - 100% done

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Saving train.csv to train.csv
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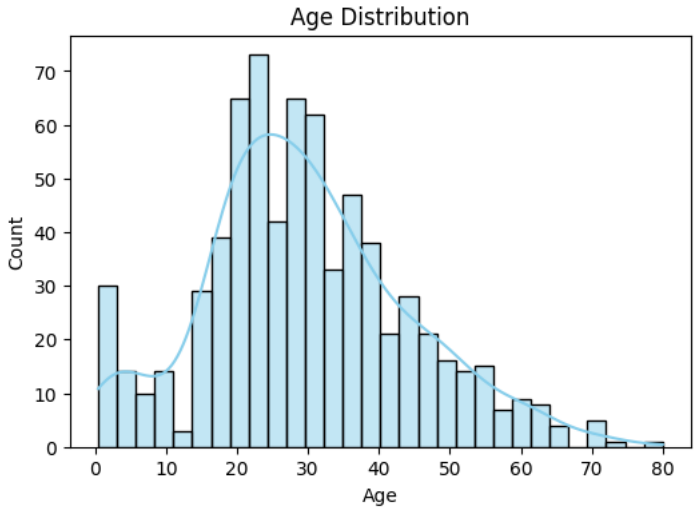

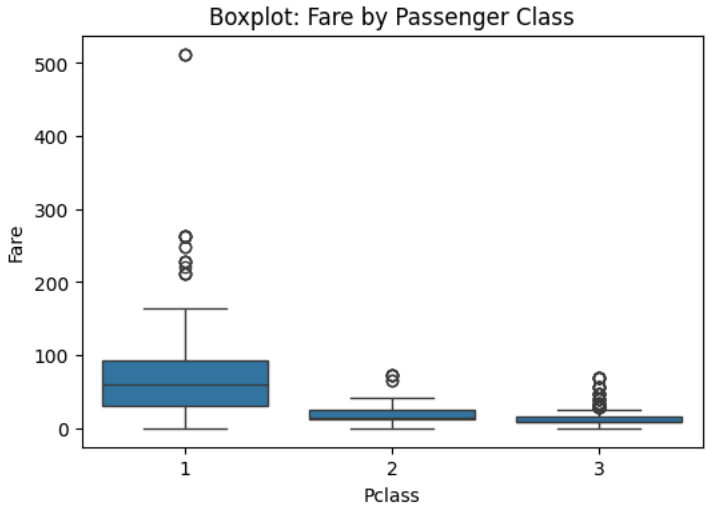


```
plt.figure(figsize=(6,4))
sns.scatterplot(x='Age', y='Fare', hue='Survived', data=train)
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plt.title("Scatterplot: Age vs Fare (colored by Survival)")
plt.show()
```