Titanic EDA - Summary Report (Sample Dataset)

Dataset: titanic_dataset_sample.csv (20 rows)

Key steps performed:
- Data loading, info, and descriptive statistics
- Missing value checks
- Univariate plots: Age distribution, Fare distributions
- Bivariate plots: Survival by Pclass, Sex
- Correlation heatmap for numeric variables

Main observations (from this sample):
1. Higher passenger class (Pclass=1) shows higher survival counts in many analyses.
2. Age contains missing values; imputation may be required on full dataset.
3. Small sample; use full Kaggle train.csv for comprehensive analysis.

Files included:
- titanic_dataset_sample.csv
- EDA_titanic_sample.ipynb
- EDA_report_titanic_sample.pdf
- README_titanic_EDA.md

Instructions: Open the Jupyter notebook to run full cell-by-cell EDA. Replace the sample CSV with Kaggle's train.csv for the full da