Titanic Dataset - EDA Report

Data Cleaning & Exploratory Data Analysis

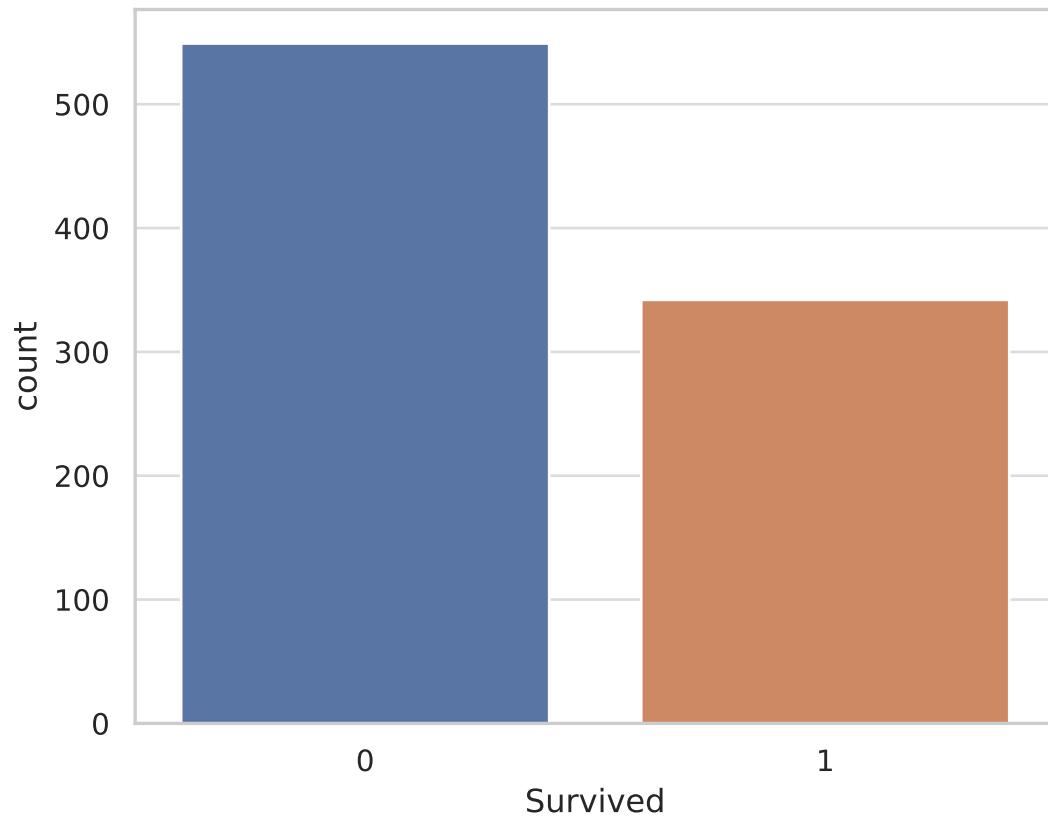Generated via Python (pandas, seaborn, matplotlib)

Dataset Summary:

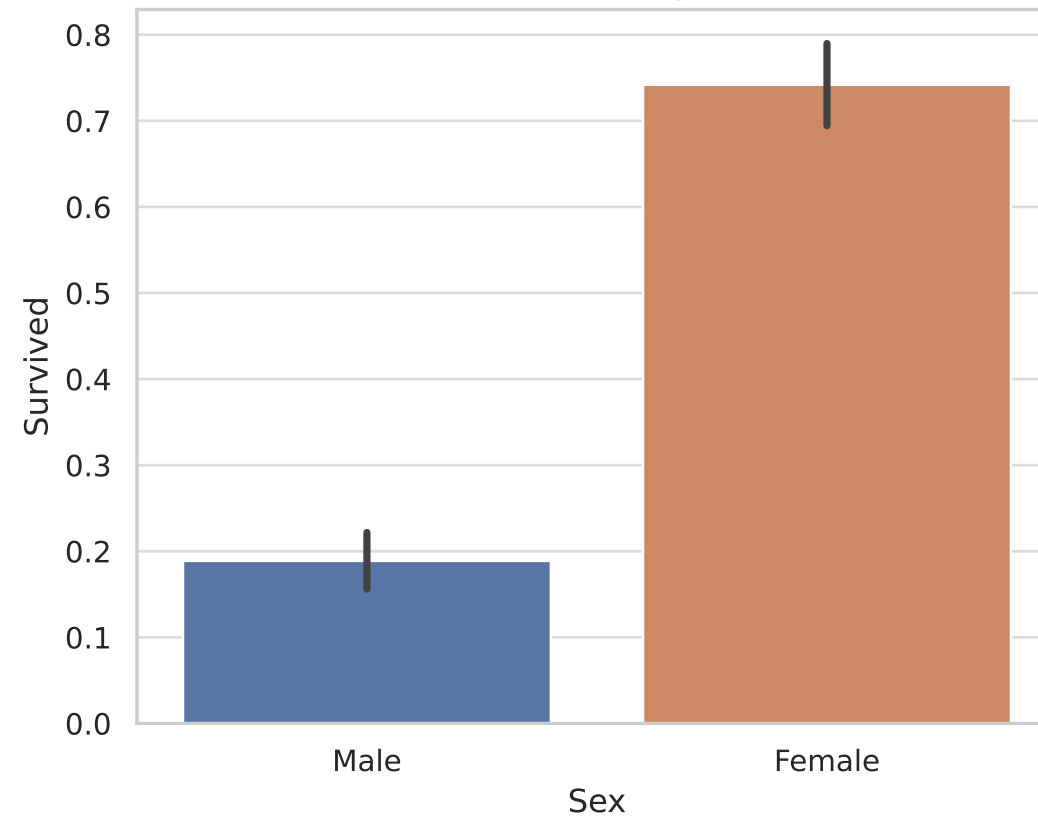Total Records: 891

Missing Values Handled: Age (filled), Embarked (filled), Cabin (dropped)

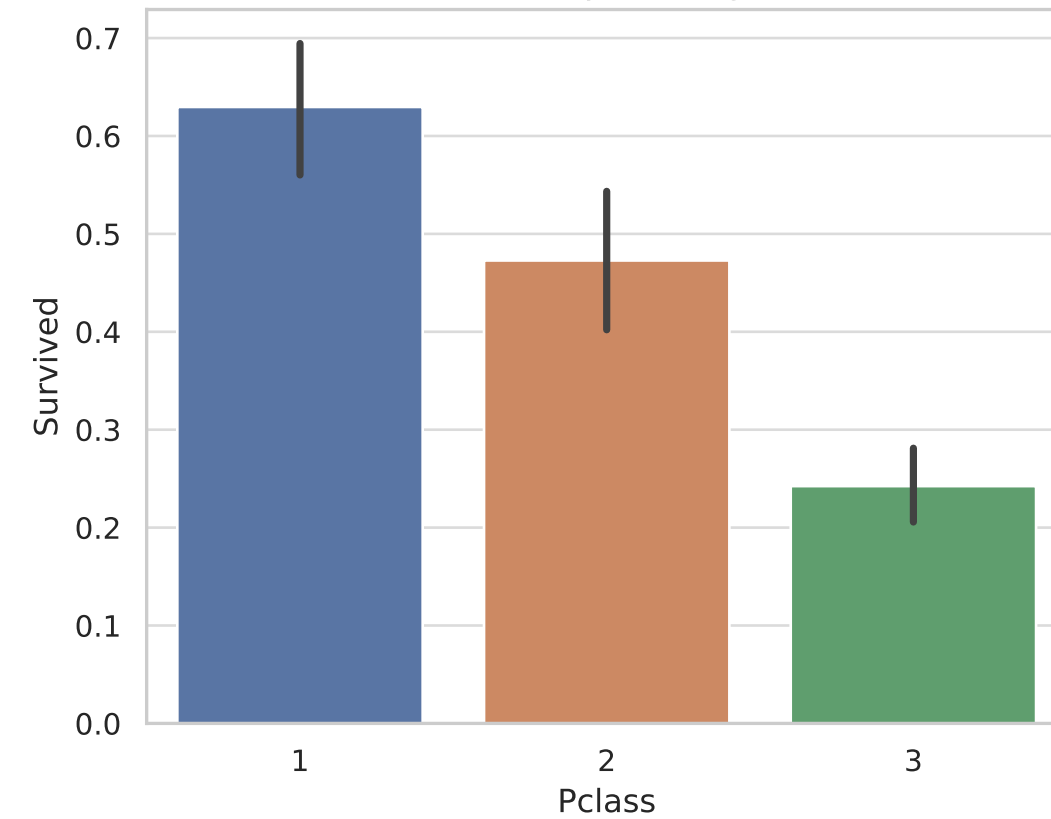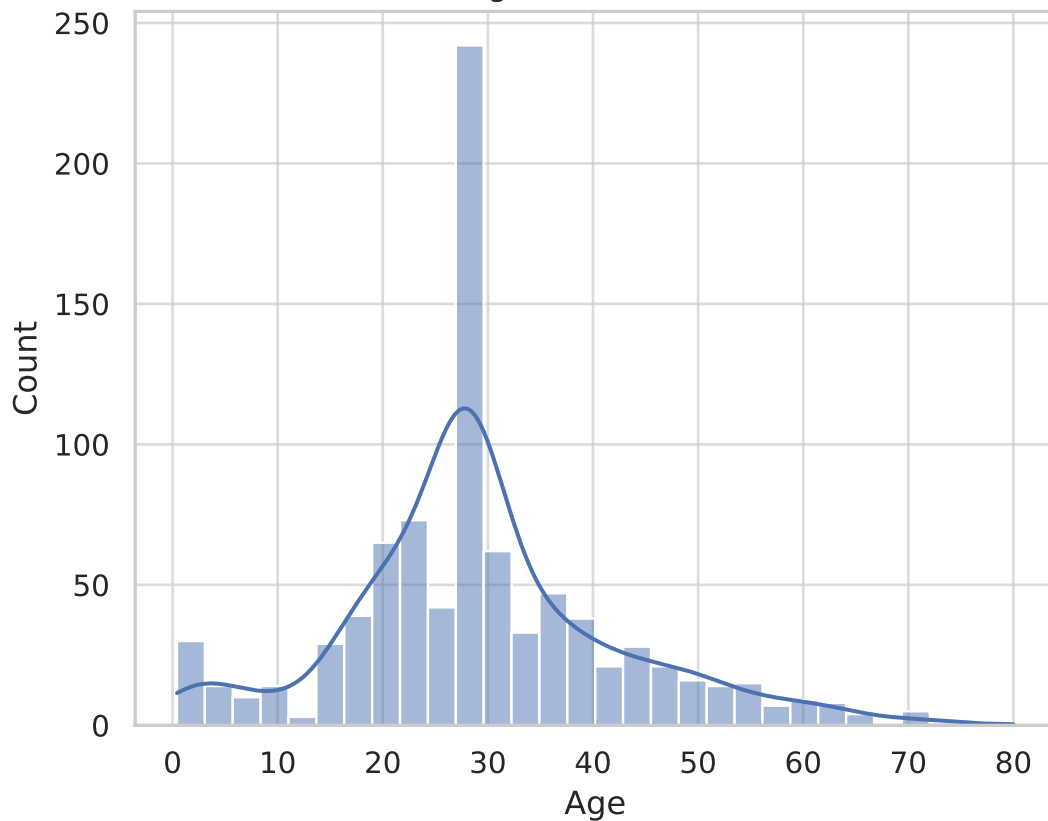Categorical Encoding: Sex (0=male, 1=female), Embarked (Q, S)

	Survived	Pclass	Sex	Age	SibSp	Parch	Fare	Embarked_Q	Embarked_S
Survived	1	-0.34	0.54	-0.065	-0.035	0.082	0.26	0.0037	-0.15
Pclass	-0.34	1	-0.13	-0.34	0.083	0.018	-0.55	0.22	0.074
Sex	0.54	-0.13	1	0.081	0.11	0.25	0.18	0.074	-0.12
Age	-0.065	-0.34	0.081	1	-0.23	-0.17	0.097	-0.031	0.0067
SibSp	-0.035	0.083	0.11	-0.23	1	0.41	0.16	-0.026	0.069
Parch	0.082	0.018	0.25	-0.17	0.41	1	0.22	-0.081	0.061
Fare	0.26	-0.55	0.18	0.097	0.16	0.22	1	-0.12	-0.16
Embarked_Q	0.0037	0.22	0.074	-0.031	-0.026	-0.081	-0.12	1	-0.5
Embarked_S	-0.15	0.074	-0.12	0.0067	0.069	0.061	-0.16	-0.5	1