TITANIC EXPLORATORY DATA ANALYSIS REPORT

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**INTRODUCTION**

The Titanic dataset is a widely recognized historical dataset that contains detailed information about the passengers who were aboard the RMS Titanic during its ill-fated maiden voyage in April 1912. The ship, which was considered unsinkable at the time, tragically struck an iceberg and sank in the North Atlantic Ocean, resulting in the deaths of over 1,500 passengers and crew members. The dataset includes various features such as passenger age, sex, ticket class, fare paid, port of embarkation, and survival status.

The goal of this analysis is to explore and understand the factors that influenced survival during the disaster. By performing exploratory data analysis (EDA), this report aims to uncover relationships and trends within the dataset — particularly focusing on how attributes like age, gender, and passenger class affected the likelihood of survival. Through statistical summaries and visual representations, this report provides insights into the underlying patterns of the Titanic tragedy, offering a data-driven perspective on one of the most well-known maritime disasters in history.

**DATA LOADING AND CLEANING**