**About The Data**

The Sinking of the RMS Titanic is one of the most infamous shipwrecks in history. On April 15,

1912, during her maiden voyages. The Titanic sank after colliding with an iceberg killing 1502 out of 2224 passengers and crew. This sensational tragedy shocked the international community and led to better safety regulations for ships.

One of the Reasons that the shipwreck led to such loss of life was that there were not enough lifeboats for the passengers and crew. Although there was some element of luck involved in surviving the sinking, some groups of people were not likely to survive than others such as women, Children and Upper Class.

Steps to Perform

1. Load and Check Data

Load the Data Using Panadas.

1. Check the Missing Values of Columns

Check any missing values present i.e null values, outliers etc and Visualize it using

Heatmap.

1. Perform Feature Engineering & Data Visualisation
   * Perform Pattern between Survived and pclass.
   * Perform Pattern between Survived and Sex
   * Using distplot distribute different types of Ages going in ship
   * Using Countplot Count the Sibling and Spares
   * Using Box plot find the mean of Ages and Replace with null Values
   * Perform one hot encoding to convert categorical data of sex and embarked into binary values and concatenate with original data set
   * So Categorical data is converted into numeric data