**Summary for Titanic Project**

In this project we analyzed what are the chances for the survival of a person on titanic using the data available including features such as gender, class , age available in the data. From the data it is clear that survival in class 1= 62 %, survival in class 2=47%,survival in class 3=24% and 233 females survived out of 314 and 109 males survived out 577 thus the chances of females and first class ticket holders were much greater than the chances for males and third class ticket holders the relevant plots have been shown in the analysis, it was further noticed that survival rate of children was 53% and that of adults was 36%.The data also had missing values in age (200 missing values) since the dataset is small these missing values were replaced by the most frequent values of age. Various algorithms were applied on the data and the maximum accuracy was obtained using XG boost after optimization the accuracy was found to be 89.9%