**Project name:** The titanic.

**Problem statement:** There was some characteristics of luck involved in surviving, it seems some groups of people were more likely to survive than others. Target is to evaluate and visualize different attributes to infer useful insights.

**Solution statement:** By visualizing and exploring this dataset, a useful information can be achieved for analysis purpose of the great ship, the titanic.

**Technologies used:** Different techniques and libraries are used including plyr, ggplot and dplyr. More techniques were label encoding, and impute methods. The model used was random decision tree with multiple cross validation folds to check the bets accuracy.

**Results achieved:** Random forest with folds = 5 and iteration =10 produces the best accuracy.