## Machine Learning (Prediction)

# Titanic Dataset

# Scenario:

The **Titanic** **datasets** describe the survival status of individual passengers on the **Titanic**.

##### Problem:

##### **We want to identify relationship between output (Survived or not) with other variables or features (Gender, Age, Port...).** We are also performing a category of machine learning which is called Supervised Learning as we are training our model with a given dataset. With these two criteria - Supervised Learning plus Classification and Regression, we can narrow down our choice of models to a few. These include:

**Logistic Regression**

**KNN or k-Nearest Neighbors**

**Support Vector Machines**

**Naive Bayes classifier**

**Decision Tree**

**Random Forrest**

**Perceptron**

**Artificial neural network**

**RVM or Relevance Vector Machine**