Assignment 2 - end to end classification problem

Attached you will find the data of the Titanic passengers.

Your goal is to predict whether or not a passenger survived based on his/hers attributes.

Extract features from the data (try to find features that are good predictors for survival), try out different classifiers and measure the success using the metrics we have learned in class.

The specifications of the attributes:

- **PassengerId**: a unique identifier for each passenger
- **Survived**: **that's the target,** 0 means the passenger did not survive, while 1 means he/she survived.
- **Pclass**: passenger class.
- **Name**, **Sex**, **Age**: ...
- **SibSp**: how many siblings & spouses of the passenger aboard the Titanic.
- **Parch**: how many children & parents of the passenger aboard the Titanic.
- **Ticket**: ticket id
- **Fare**: price paid (in pounds)
- **Cabin**: passenger's cabin number
- **Embarked**: where the passenger embarked the Titanic (C=Cherbourg, Q=Queenstown, S=Southampton).