

Project description:

The objective of this project is to analyse the Titanic dataset and predict survival based on various features such as age, sex, class, and fare paid. The project will require the following:

- Access to the Titanic dataset from Kaggle: <https://www.kaggle.com/c/titanic/data>
- Knowledge of Python and data analysis libraries such as Pandas, Numpy, and Matplotlib
- Familiarity with data pre-processing techniques such as data cleaning, feature engineering, and data visualization
- Understanding of machine learning algorithms such as Logistic Regression, Decision Trees, and Random Forests
- Ability to evaluate the performance of the predictive model using metrics such as accuracy, precision, and recall

The deliverables for this project include:

- Exploratory data analysis of the Titanic dataset
- Pre-processing of the data to handle missing values, categorical features, and outliers
- Feature engineering to create new features that may improve the predictive power of the model
- Building a predictive model using one or more machine learning algorithms
- Evaluation of the model using appropriate performance metrics
- Final report summarizing the findings, insights, and recommendations