

# TITANIC Disaster

Machine Learning Project

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|------------------|---------------------|
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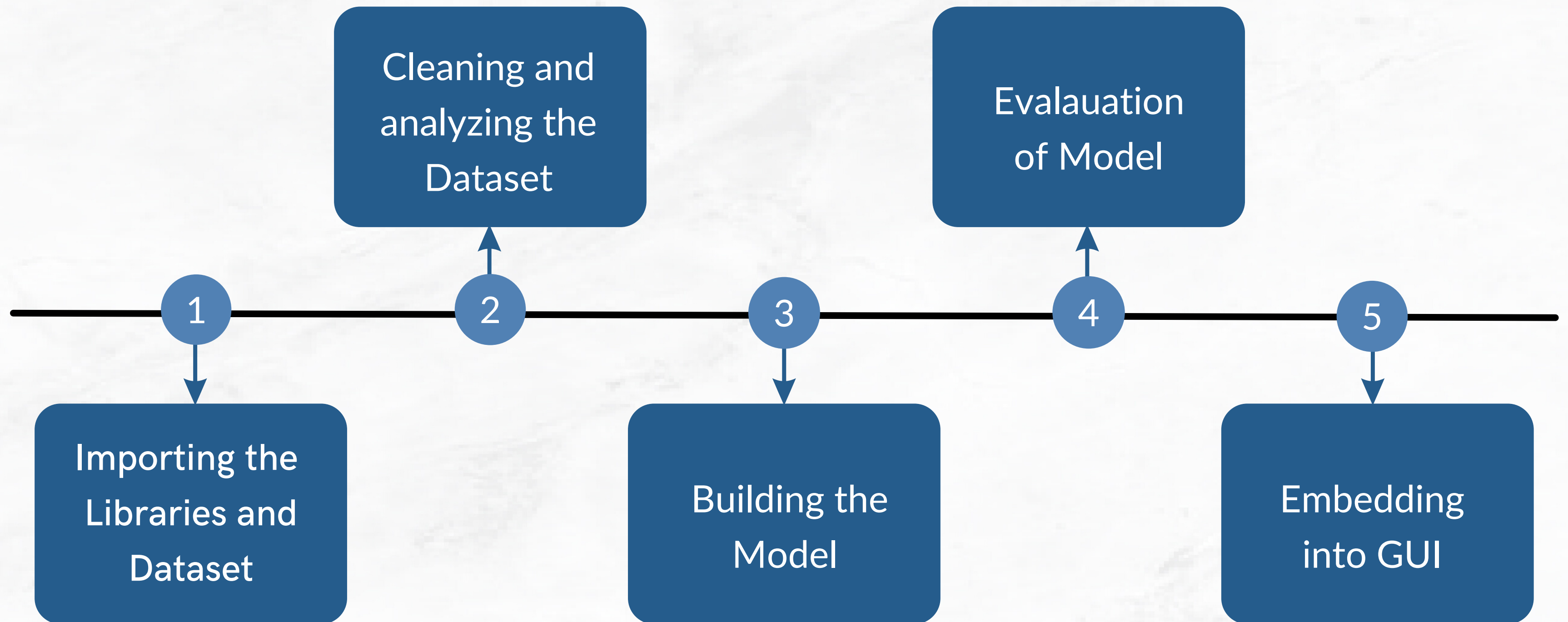


# Introduction

The sinking of the Titanic is one of the most infamous shipwrecks in history. The goal of the project is to predict the survival of passengers based on set of data. We took several approaches to this problem in order to compare and contrast the different ML techniques. Using different methods, we try to predict the survival of passengers using different combinations of features.



# Approach



# Learnings

1

## Analyzing :

- Numpy
- Pandas
- Scikit-Learn

2

## Visualization :

- Matplotlib
- Seaborn

3

## ML Algorithm's :

- Logistic Regression
- KNN
- Decision Tree
- Random Forest
- Linear SVM
- Gaussian Naive Bayes

4

## GUI :

- Tkinter
- Pillow

# Challenges

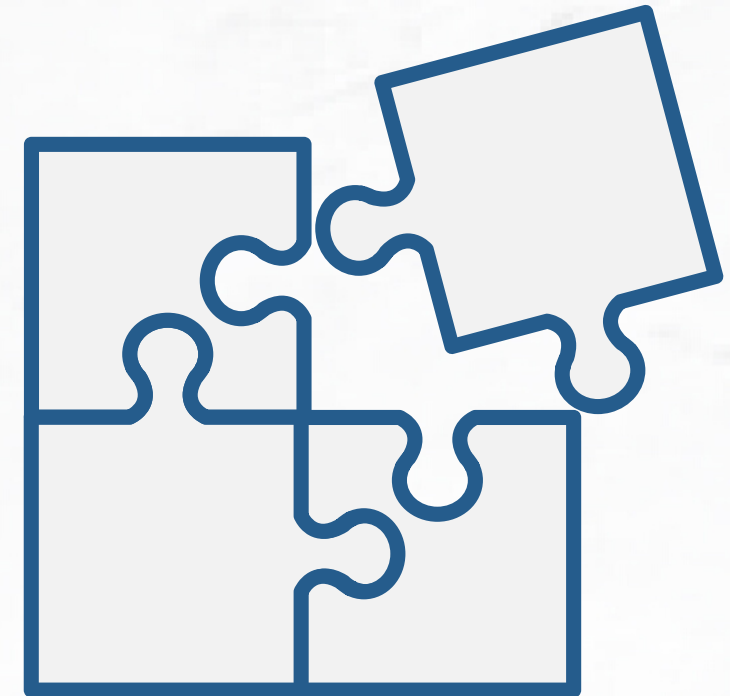
...

1 Tkinter

2 Data Cleaning :

Analyze the Parent Child Column  
Handling with Targeted Features

3 Naive Bayes classifiers





# Statistics

...

## 1 Number of lines of code :

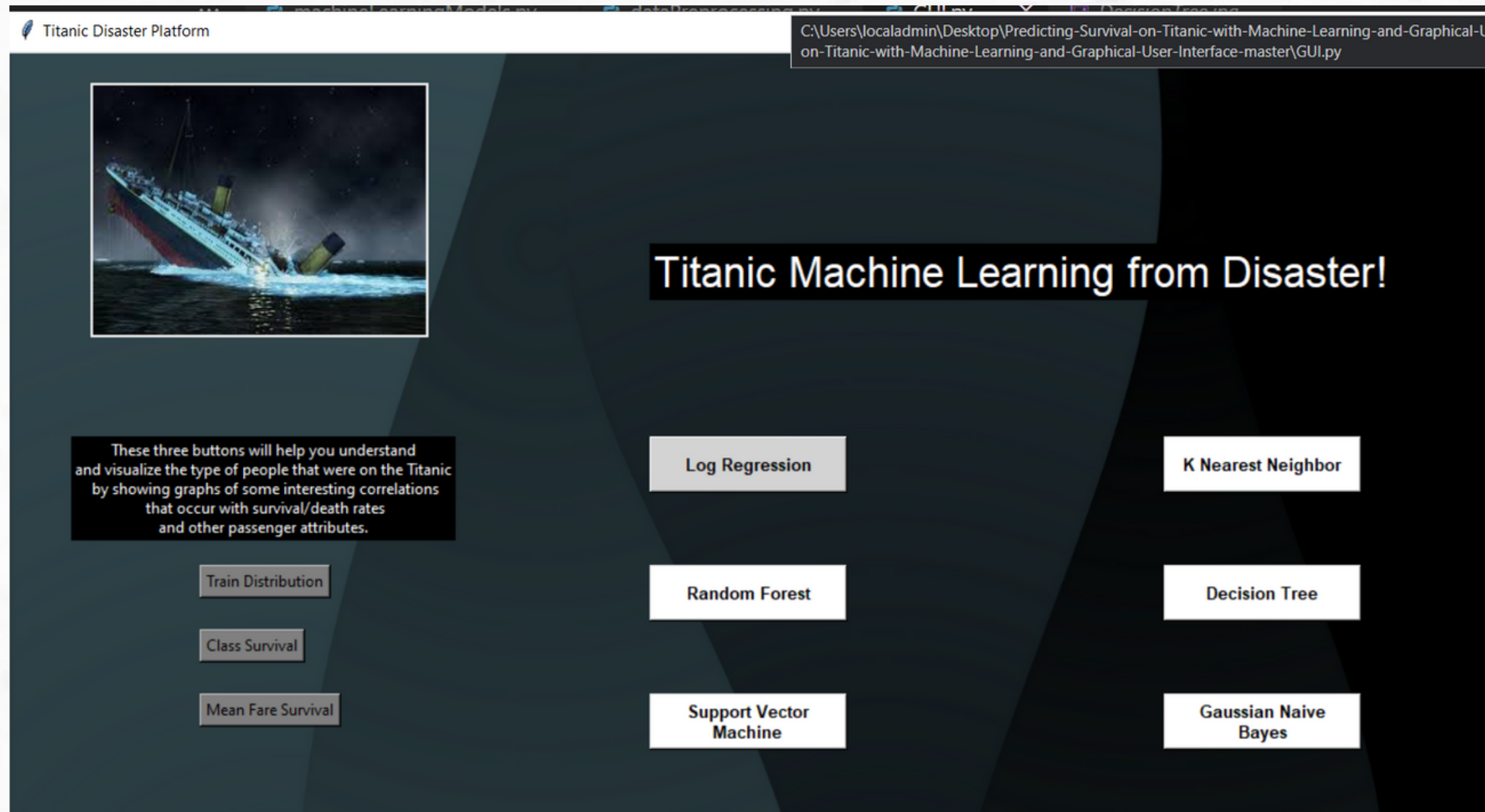
- GUI : 320
- Python code : 110

## 2 Number of functions :

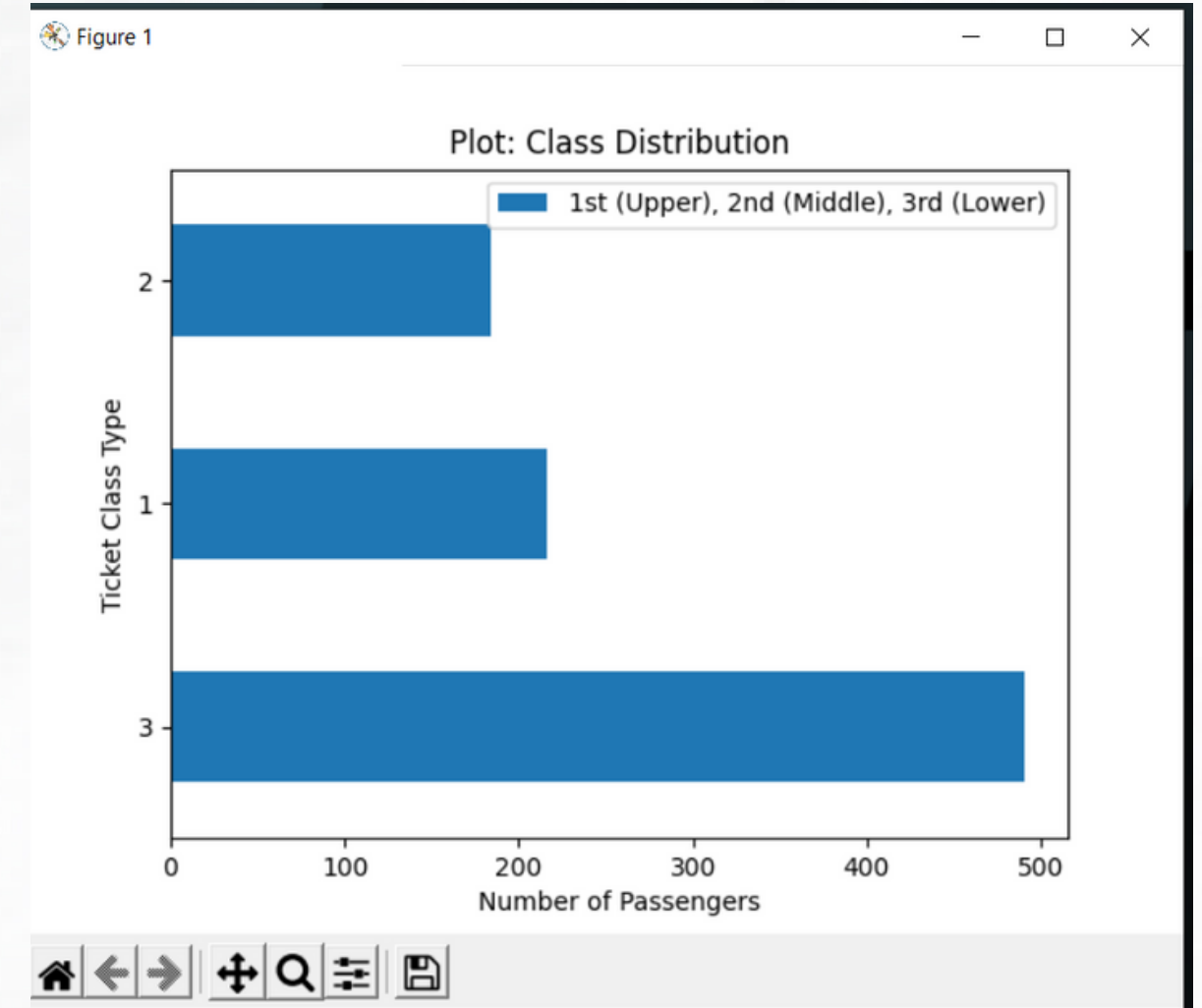
- preProcess()
- sType()
- KNN()
- rFOREST()
- precep()
- lsvm()
- logRegression()
- dTree()
- printPrediction()
- trainclassDistr()
- gNaiveBayes()

# Outputs

...

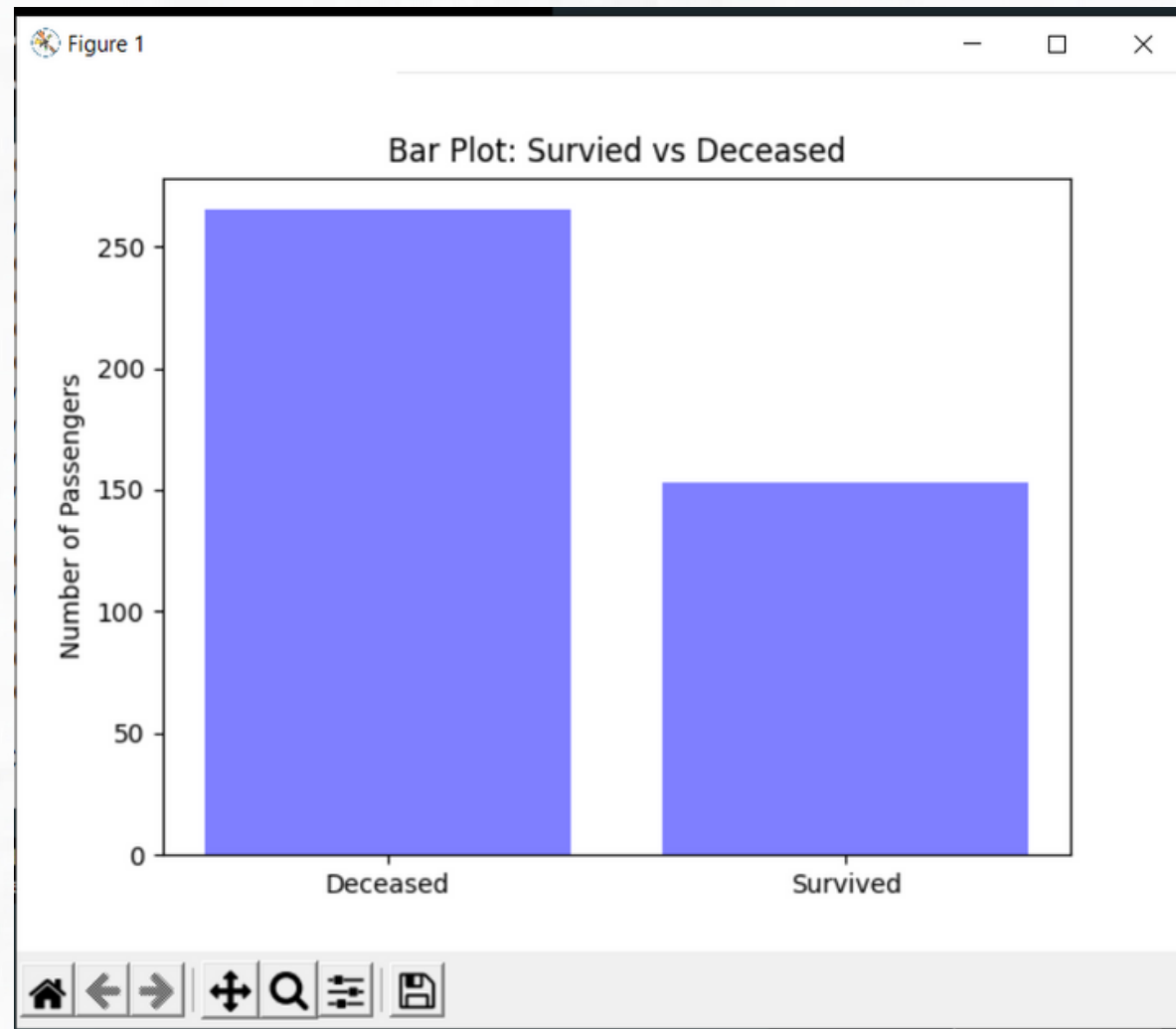


Main Screen

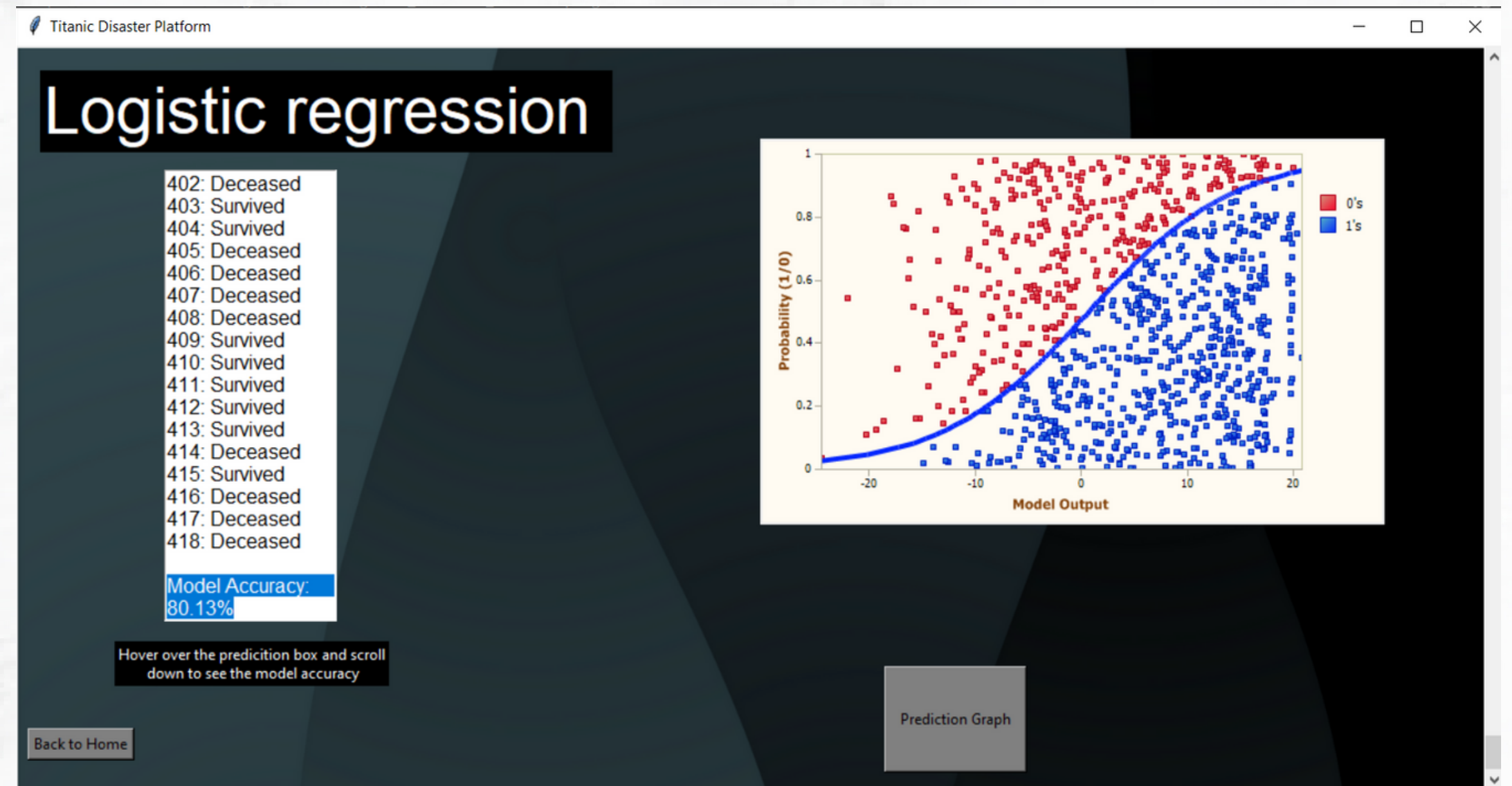


Train Distribution





Prediction Graph



Logistic Regression





# Thank you!

