**Machine Learning Final Project**

Team Members:

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Project Type:

We will analyze existing passenger data from the titanic dataset below. Our final webpage will allow users to input their desired variables as a passenger. We will use machine learning to predict the probability of their survival, had they been on the voyage.

Dataset: <https://www.kaggle.com/pavlofesenko/titanic-extended>

Table, Excel

Description automatically generated

Workflow:

* Data cleaning and formatting
* Exploratory analysis
* Feature engineering and selection
* Pick machine learning model
* Hyperparameter tuning on best model
* Evaluate best model on testing set
* Interpret model results
* Draw conclusions and document work

Tools:

* Python pandas
* SQL Database
* Scikit-Learn
* Tableau
* HTML/CSS/Bootstrap
* Host application on Github Pages