# AAI-510 – Team Project Status Update Form

Fill out this form and submit it by the end of Module 4 in Canvas.

**Team Number**: \_\_\_8\_\_\_\_\_\_\_\_\_\_

**Team Leader/Representative:** \_\_\_\_\_\_Iman Hamdan\_\_\_\_\_\_\_\_

Full Names of Team Members:

1. \_\_\_\_\_\_\_\_\_Matt Hashemi\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_Michael De Leon\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_Iman hamdan\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Title of Your Project:** \_\_\_\_\_\_\_Financial Risk Classification of S&P 500 Companies Using Machine Learning\_\_\_\_\_\_\_\_

Short Description of Your Project and Objectives: \_\_The goal of our project is to apply supervised machine learning techniques to classify S&P 500 companies based on financial health indicators such as profit margins, debt levels, and return on equity. We aim to build a predictive model that categorizes companies as low, medium, or high financial risk. This can assist in investment decision-making and financial forecasting.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Name of Your Selected Dataset:** S&P 500 Companies with Financial Information

**Description of Your Selected Dataset (data source, number of variables, size of dataset, etc.):**

The dataset is sourced from Kaggle: https://www.kaggle.com/datasets/paytonfisher/sp-500-companies-with-financial-information

It includes financial metrics for 503 S&P 500 companies, with approximately 25 variables including P/E ratio, market cap, beta, EPS, and profit margin. The dataset is structured and clean, with a size of around 58 KB.

**Please provide GitHub the link here**: <https://github.com/GitAIwithMike/final-project-AAI510-team8_>

How many times have your members met in the last two weeks? \_\_\_\_\_\_1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

List the specific contributions that each team member is providing for the Final Team Project in the table below.

* **NOTE:** ALL students on the team should contribute equally to the Final Team Project.

| Team Member 1 (Matt) | Team Member 2 (Iman) | Team Member 3 (if applicable) (Micheal) |
| --- | --- | --- |
| -Project planning  - Dataset cleaning  - EDA & feature selection  - Created classification target | - Researched classification models  - Assisted with model training and testing  - Created visuals for insights | - Organized GitHub repo  - Drafted project documentation  - Worked on model evaluation and performance tuning |

Comments/ Roadblocks: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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