**AAI-500 – Team Project Status Update Form**

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

Team Number: \_\_5\_\_\_

Team Leader/Representative: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Full Names of Team Members:

1. \_ Gary Takahashi \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_Daniel Ackermann\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_Akram Mahmoud\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Title of Your Project: \_Stock market price increase, short-term (1 week window) vs longer term (1 month window)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Short Description of Your Project and Objectives: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Name of Your Selected Dataset: \_ Dow Jones Index Data Set\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

The “Dow Jones Index Dataset” consists of 750 rows of time-series data for 30 companies listed on the Dow Jones for the first two quarters of 2011 (January through June, 2011). The dataset was sourced from the UCI Machine Learning Repository on 25 May, 2023 from the following URL: <https://archive.ics.uci.edu/ml/datasets/Dow+Jones+Index>. The owner of the dataset is Dr. Michael Brown and was used in the Brown et al (2013) paper.

The dataset has 16 attributes (variables) and is available in a comma-delimited datafile:

* quarter: the yearly quarter (1 = Jan-Mar; 2 = Apr=Jun).
* stock: the stock symbol
* date: The last business day of the work
* open: The price of the stock at the beginning of the week
* high: The highest price of the stock during the week
* low: The lowest price of the stock during the week
* close: The price of the stock at the end of the week
* volume: The number of shares of stock that traded hands in the week
* percent\_change\_price: The percentage change in price throughout the week
* percent\_chagne\_volume\_over\_last\_wek: The percentage change in the number of shares of stock that traded hands for this week compared to the previous week
* previous\_weeks\_volume: The number of shares of stock that traded hands in the previous week
* next\_weeks\_open: The opening price of the stock in the following week
* next\_weeks\_close: The closing price of the stock in the following week
* percent\_change\_next\_weeks\_price: The percentage change in price of the stock in the
* following week days\_to\_next\_dividend: The number of days until the next dividend
* percent\_return\_next\_dividend: The percentage of return on the next dividend

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Are you using and practicing GitHub as a code hosting platform for version control and collaboration? If yes, provide the link here: https://github.com/danielsackermann/aai50001

How many times have your members met in the last two weeks? \_7 times\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What was the agreed upon method of communication? Are you using any teamwork project management software, such as [Trello](https://trello.com/en-US) or [Asana](https://asana.com/)? \_We will use the collaboration area in Blackboard for all communication, including project management. Zoom & Slack

Comments/ Roadblocks: This project is competing with other commitments – regular course work and careers, and some work may be quality compromised.

**Reference**

Brown, M. S., Pelosi, M. J., & Dirska, H. (2013). Dynamic-Radius Species-Conserving Genetic Algorithm for the Financial Forecasting of Dow Jones Index Stocks. In P. Perner (Ed.), *Machine Learning and Data Mining in Pattern Recognition* (pp. 27–41). Springer. https://doi.org/10.1007/978-3-642-39712-7\_3