Bill Downs

Christopher Thacker

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Volvo Truck Analytics

Our group has obtained data from Volvo Trucks North America, which consists of two vehicles. One “Long Haul” and one “Short Haul”. Each vehicle has its own dataset. Data is logged by sensors 10 times per second. There are 54 columns and over 1 million rows of data. As our initial project directions state, we set up our GitHub accounts and linked them to the Volvo\_Truck\_Analytics repository. Next, our group started cleaning the data by formatting the data dictionaries, removing all-NaN columns and rows, and renaming columns to exclude channel designations for better readability. Also, testing data by aggregation was also explored to be better prepared for phase 2 of our project.

Member Task Descriptions, *Phase 1*:

*Bill*: Determine vehicle travel designation and update ReadMe.md on git.

*Christopher*: Adjust and format the data dictionary to metrics being used.

*James*: Setup master branch with both data sets for manipulations and determine git functions on merging branches.

*Wahab*: Determine whether there are rows or columns with all NaN values, if so remove them.

*Ioannis*: Aggregate on vehicle weights to determine if weight affects performance of the vehicles.