

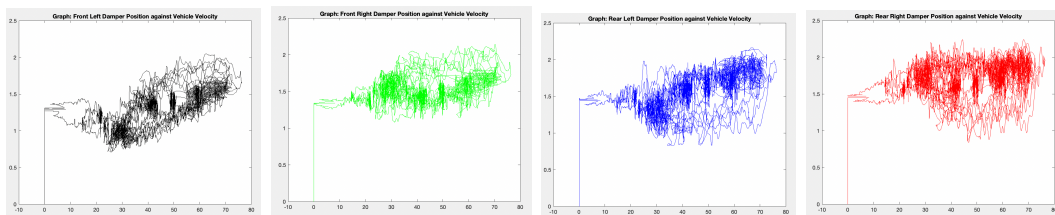
This is a document to keep track of the Bengal Data Analysis. The purpose of this is to keep track of my analysis and also showcase what I have done, and gathering what I have learnt from the data set. The code can be found here: <https://github.com/hippyhippohops/Student-Formula-Report>.

1 Data Cleaning

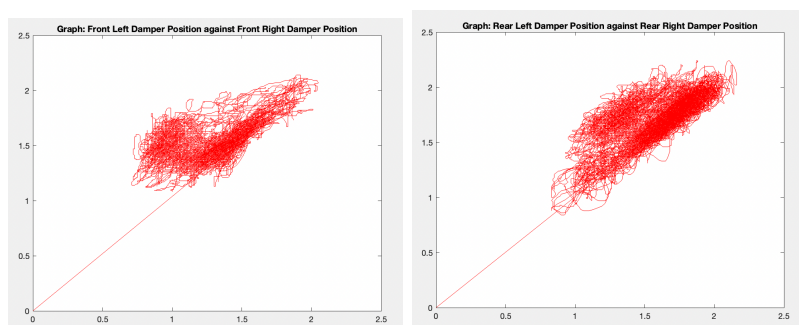
2 Linear Regression on Bengal Test Data

Here, we will run some simple linear regression to see the relationship between the velocity and the damper position (Front Left (FL), Front Right (FR), Rear Right (RR) and Rear Left (RL)). We are interested to see how much the dampers compress as the velocity of the vehicle changes. These are the results:

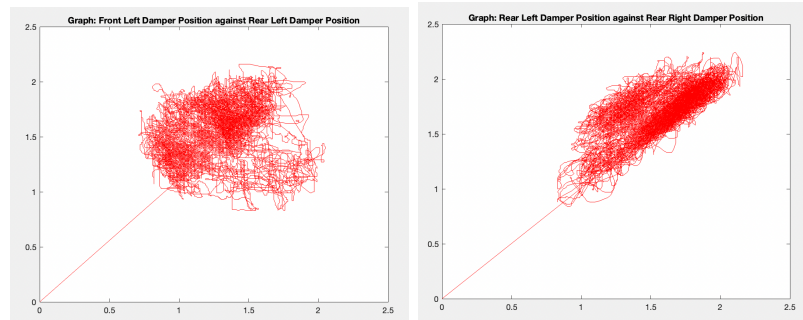
- Relationship between the Damper Positions against Velocity



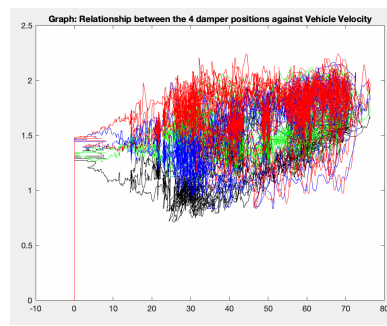
- Relationship between the Damper Positions on the left and the right side agwith respect to time



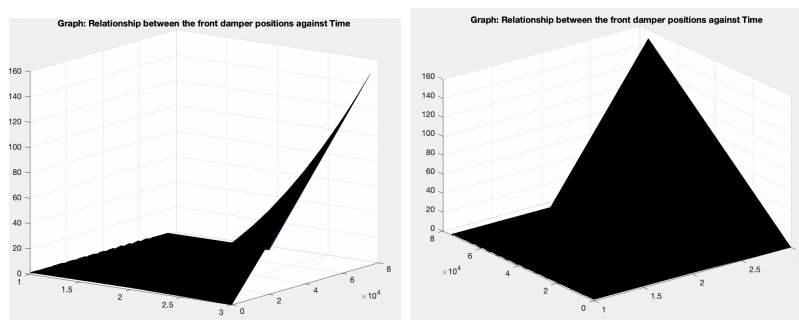
- Relationship between the Damper Positions on the left and the right side agwith respect to time



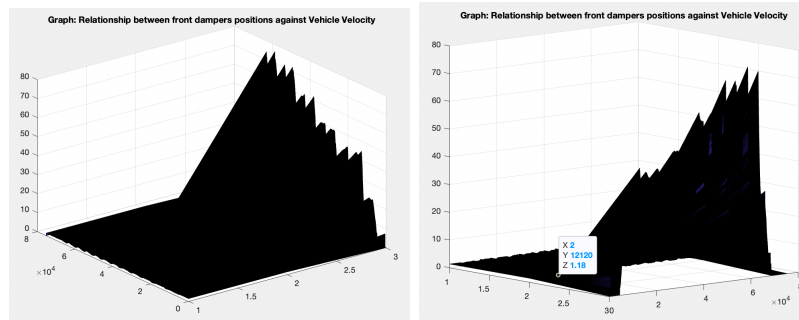
- Relationship between the Damper Positions against Velocity (Plotted Individually - combined to the same plot)



- Relationship between the Front Damper Positions against Time



- Relationship between the Front Damper Positions against Velocity



- Relationship between the Rear Damper Positions against Velocity

