**Team name: Optimus Prime**

1. The below table captures the files for the submission

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| **ID** | **File name** | **Purpose** |
| 1 | OptimusPrime\_Unit7\_AsnTS.pdf | The paper for the CA |
| 2 | train.csv, test.csv | Training data – Data up to 26th Oct 2008  Test data – Data from Nov 2008 – 15 Mar 2009 |
| 3 | TimeSeriesRegression.ipynb | Exploratory analysis |
| 4 | Arima.ipynb | Running of auto-ARIMA to choose the best ARIMA values |
| 5 | Time Series.jmp | This JMP file contains the analysis for the exponential smoothing and ARIMA modelling. |
| 6 | Regression\_excel folder | Contains the excel files for regression and dummy variable regression modelling |
| 7 | Decompositional Methods.ipynb | Additive and Multiplicative Decompositional Methods |
| 8 | Decompositional\_Methods.Rmd | STL Decompositional Method |
| 9 | Exponential\_Smoothing\_Try.ipynb | Some visualizations for exponential smoothing |