Last Seen: 22 Sep, 23 Started: 15 Sep23

MTH 441A: Lab 6

- P.1. Consider the Delivery Time data set. Calculate the following measures of outliers:
- (a) Leverage point,
- (b) COOK'S D,
- (c) DFBETAS,
- (d) DFFITS,
- COVRATIO.

Based on the above measures, find the outliers present in the data.

- P 2. Consider the Acetylene data set.
- Normalise the data set by subtracting the associated mean and dividing by the square root of $(n-1)\times$ the sample variance of each variables.
- (b) Consider all the regressors including the interactions and second order terms. Find the correlation matrix. Observe the correlation.
- (c) Find the VIF for the regression model where all the regressors including the interactions and second order terms are considered.