**REGRESSION TECHNIQUES BASED WHETHER FORECASTING PREDICTION**

Regression methods are a workhorse of statistics and have been co-opted into statistical machine learning. This may be confusing because we can use regression to refer to the class of problem and the class of algorithm. This project provides the temperature predictions in weather forecasting time to time using regression-based techniques. We have to use four techniques like Ordinary Least Squares Regression, Logistic Regression, Multivariate Adaptive Regression Splines (MARS) and Locally Estimated Scatterplot Smoothing (LOESS). We focus on mean square error rate of each technique. Low MSE is better for weather forecasting results. The statistical results show the MSE rate.

Keywords: OLSR, Logistic Regression, MARS, LOESS, Regression Techniques, Machine Learning, Weather forecasting prediction.