# Validation

## Regression

* *Goodness of Fit (r-squared & Adjusted r-squared)*
* *Analysis of Residuals*
  + *Residual Normality*
  + *Residuals vs Predictors (X variables)*
  + *Fitted vs Residuals (homoscedastic, heteroscedastic, nonlinear)*
  + *Response vs Fitted*
* *Accuracy Metrics*
  + *Mean Absolute Error (MAE)*
  + *Mean Squared Error (MSE)*
  + *Root Mean Squared Error (RMSE)*
  + *Mean Absolute Squared Error (RMSE)*
* *Heteroscedastic, Homoscedastic Test (Test for constant variance)*
  + *Breusch-Pagan Test*
  + *Bartlett’s Test*
  + *White’s Test*

## Classification

* Confusion Matrix
  + Accuracy
  + Misclassification Rate
  + Precision & Recall
  + F1 Score
* Receiver Operator Characteristic (ROC)