Goodness of fit

@wikipedia

The basic set of Model Validation metrics against certain dataset (could be the Training dataset or Validation dataset).

There is no complete set of numbers to define the Goodness of fit and different studies may use different sets of Goodness of fit metrics.

The most widely used set in engineering practice is summarized in the table below:

Root Mean Square Deviation (RMSD)	**RMSD**
Average Absolute Relative Error (AARE)	**AARE**
Maximum Absolute Relative Error (MAXARE)	**MAXARE**
Coefficient of determination (R2)	**R^2**
Pearson correlation coefficient ($_P$)	**P**
Correlation skewness	**S_3**
Validation Cross-Plot	

See also

Human / Science / Formal Science / System Science / System / Model / Model Validation

[Mathematics / Statistics / Statistical Metric]

[Mean Square Deviation (MSD) = Mean Square Error (MSE)]

[Root Mean Square Deviation (RMSD) = Root Mean Square Error (RMSE)]

[Average Relative Error (ARE) = Average Percentage Error (APE)]

[Average Absolute Relative Error (AARE) = Average Absolute Percentage Error (AAPE)]

[Maximum Relative Error (MAXRE) = Maximum Percentage Error (MAXPE)]

[Maximum Absolute Relative Error (MAXARE) = Maximum Absolute Percentage Error (MAXAPE)]

[Coefficient of determination (R^2)][Pearson correlation coefficient ($_P$)][Correlation skewness]

[Validation Cross-Plot]