**For Classification:**

| **Metric** | **Measures** | **In Scikit-learn** |
| --- | --- | --- |
| Precision | How many selected are relevant? | from sklearn.metrics import precision\_score |
| Recall | How many relevant were selected? | from sklearn.metrics import recall\_score |
| F1 | Weighted average of precision & recall | from sklearn.metrics import f1\_score |
| Confusion Matrix | True positives, true negatives, false positives, false negatives | from sklearn.metrics import confusion\_matrix |
| ROC | True positive rate vs. false positive rate, as classification threshold varies | from sklearn.metrics import roc |
| AUC | Aggregate accuracy, as classification threshold varies | from sklearn.metrics import auc |

**For Regression:**

| **Metric** | **Measures** | **In Scikit-learn** |
| --- | --- | --- |
| Mean Square Error (MSE, RMSE) | distance between predicted values and actual values (more sensitive to outliers) | from sklearn.metrics import mean\_squared\_error |
| Absolute Error (MAE, RAE) | distance between predicted values and actual values (less sensitive to outliers) | from sklearn.metrics import mean\_absolute\_error, median\_absolute\_error |
| Coefficient of Determination (R-Squared) | % of variance explained by the regression; how well future samples are likely to be predicted by the model | from sklearn.metrics import r2\_score |