Evaluation Approach / Metric	Appropriate Data Types	Mathematic Definition (if applicable)	ArcPy function (if applicable)	How to do in python	What metrics is this approach similar / different to?	Sources
Confusion Matrix	Binary/Multiclass	N/A	arcpy.gp.ComputeConfusionMatrix()	sklearn.metrics.confusion_matrix()	Similar: Sensitivity, Specificity, F1-Score	ArcPy and sklearn
Accuracy	Binary/Multiclass	TP + TN / TP + TN + FP + FN	N/A	sklearn.metrics.accuracy_score()	Similar: Error Rate, Balanced Accuracy	sklearn
Precision	Binary/Multiclass	TP / TP + FP	N/A	sklearn.metrics.precision_score()	Similar: Recall, F1-Score	sklearn
Recall	Binary/Multiclass	TP / TP + FN	N/A	sklearn.metrics.recall_score()	Similar: Precision, F1-Score	sklearn
True Positives	Binary/Multiclass	N/A	N/A	numpy.ravel() on a sklearn confusion matrix	Similar: False Positives, True Negatives	sklearn and NumPy
False Positives	Binary/Multiclass	N/A	N/A	numpy.ravel() on a sklearn confusion matrix	Similar: True Positives, False Negatives	sklearn and NumPy
Receiver Operator Characteristic (ROC) Curve and Area Under the Curve	Binary	N/A	N/A	sklearn.metrics.roc_auc_score()	Similar: Precision-Recall Curve and Area Under the Curve	sklearn
R-squared	Continuous	$[(n\Sigma xy - (\Sigma x)(\Sigma y)) / (\sqrt{n\Sigma x2 - (\Sigma x)2} * \sqrt{n\Sigma y2 - (\Sigma y)2})]2$	N/A	sklearn.metrics.r2_score()	Similar: Adjusted R-Squared	sklearn and Statology
Adjusted R-Squared	Continuous	$1 - [(1-R2)*(n-1)/(n-k-1)]$	N/A	1 - [(1 - sklearn.metrics.r2_score()) * (n - 1) / (n - k - 1)]	Similar: R-Squared	sklearn and Statology
Root Mean Square Error	Continuous	$\sqrt{\Sigma(yi - \hat{y}i)2 / n}$	N/A	sklearn.metrics.mean_squared_error()	Similar: Mean Absolute Error	sklearn and Statology
Mean Absolute Error	Continuous	$1/n * \Sigma |yi - \hat{y}i|$	N/A	sklearn.metrics.mean_absolute_error()	Similar: Root Mean Square Error	sklearn and Statology
Residual Standard Error	Continuous	$\sqrt{MSE}$	N/A	numpy.sqrt(sklearn.metrics.mean_squared_error())	Similar: Root Mean Square Error, Mean Absolute Error	DataCamp
Akaike's Information Criterion (AIC)	Continuous	$2K - 2\ln(L)$	N/A	statsmodels.OLS(y, x).fit().aic	Similar: Bayesian Information Criterion (BIC)	Statology
Bayesian Information Criterion (BIC)	Continuous	$(RSS + \log(n)d\sigma2) / n$	N/A	statsmodels.OLS(y, x).fit().bic	Similar: Akaike's Information Criterion (BIC)	Statology