

# Performance Evaluation Metrics

## Applied Machine Learning for Educational Data Science

true

09/15/2021

## Contents

<b>1. Evaluation Metrics for Continuous Outcomes</b>	<b>2</b>
Explained Variance ( $R^2$ ) . . . . .	2
Error related indices . . . . .	2
Mean Absolute Error . . . . .	2
Median Absolute Error . . . . .	2
Mean Squared Error . . . . .	2
Root Mean Squared Error . . . . .	2
Squared Log Error . . . . .	2
Mean Absolute Percentage Error . . . . .	2
Baseline performance . . . . .	2
<b>2. Evaluation Metrics for Binary Outcomes</b>	<b>2</b>
Confusion Matrix . . . . .	2
Accuracy, Precision, Recall . . . . .	2
Brier Score . . . . .	2
F1 score . . . . .	2
AUC . . . . .	2
Log loss . . . . .	2
Baseline performance . . . . .	2

[Updated: Wed, Sep 15, 2021 - 11:17:32 ]

## 1. Evaluation Metrics for Continuous Outcomes

Explained Variance ( $R^2$ )

Error related indices

Mean Absolute Error

Median Absolute Error

Mean Squared Error

Root Mean Squared Error

Squared Log Error

Mean Absolute Percentage Error

Baseline performance

## 2. Evaluation Metrics for Binary Outcomes

Confusion Matrix

Accuracy, Precision, Recall

Brier Score

F1 score

AUC

Log loss

Baseline performance