

Models Validation

Puntos totales 86/100 ?

Se ha registrado el correo del encuestado (0224969@up.edu.mx) al enviar este formulario.

✓ The objective of a regression model is to predict * 6/6

- ☐ Categories
- ☒ Numeric values



✓ It is used for measuring the model's performance * 6/6

- ☐ Training set
- ☒ Testing set
- ☐ Validation set



✓ Select the metrics for measuring the performance of CLASSIFICATION models * 8/8

- ☐ Mean Square Error (MSE)
- ☒ Accuracy
- ☒ Precision
- ☐ R2 score, coefficient of determination
- ☒ F1
- ☐ Mean Absolute Error (MAE)
- ☒ Recall



✗ Select the metrics for measuring the performance of REGRESSION models * 0/8

- | | |
|--|---|
| <input checked="" type="checkbox"/> Mean Square Error (MSE) | ✓ |
| <input type="checkbox"/> Accuracy | |
| <input type="checkbox"/> Precision | |
| <input checked="" type="checkbox"/> R2 score, coefficient of determination | ✓ |
| <input type="checkbox"/> F1 | |
| <input checked="" type="checkbox"/> Mean Absolute Error (MAE) | ✓ |
| <input checked="" type="checkbox"/> Recall | ✗ |

Respuesta correcta

- ☒ Mean Square Error (MSE)
- ☒ R2 score, coefficient of determination
- ☒ Mean Absolute Error (MAE)



✓ It is like an average between precision and recall. *

6/6

- ☐ R2 score, coefficient of determination
- ☐ Accuracy
- ☐ Precision
- ☐ Macro-F1
- ☐ Mean Absolute Error (MAE)
- ☐ Recall
- ☐ Confusion matrix
- ☐ Mean Square Error (MSE)
- ☒ F1



Nombre completo *

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✓ It measures how well the model predicts based on the variance of the independent variable. Value = 1 is the best value. Value = 0 means that predictions are as good as random guesses based on the mean and the variance of the independent variable. Value < 0 means that predictions are worse than random. *

6/6

☒ R2 score, coefficient of determination



☐ Accuracy

☐ Precision

☐ Macro-F1

☐ Mean Absolute Error (MAE)

☐ Recall

☐ Confusion matrix

☐ Mean Square Error (MSE)

☐ F1



✓ Of all the samples that were 1, how many were predicted as 1.
 $tp/(tp+fn)$ *

6/6

- ☐ R2 score, coefficient of determination
- ☐ Accuracy
- ☐ Precision
- ☐ Macro-F1
- ☐ Mean Absolute Error (MAE)
- ☒ Recall
- ☐ Confusion matrix
- ☐ Mean Square Error (MSE)
- ☐ F1



✓ The dataset is divided into several folds. Then, the model is evaluated several times, the exact times as folds are, where the testing set is set as a different fold each time. *

6/6

- ☒ Cross validation
- ☐ Anova test
- ☐ Training testing split



✓ Of all the samples predicted as 1, how many were 1. $tp/(tp+fp)$ *

6/6

- ☐ R2 score, coefficient of determination
- ☐ Accuracy
- ☒ Precision
- ☐ Macro-F1
- ☐ Mean Absolute Error (MAE)
- ☐ Recall
- ☐ Confusion matrix
- ☐ Mean Square Error (MSE)
- ☐ F1



✓ It is recommended to use this metric when the classes are imbalanced. 6/6
The number of classes is bigger than 2. *

- ☐ R2 score, coefficient of determination
- ☐ Accuracy
- ☐ Precision
- ☒ Macro-F1
- ☐ Mean Absolute Error (MAE)
- ☐ Recall
- ☐ Confusion matrix
- ☐ Mean Square Error (MSE)
- ☐ F1



✓ The objective of a classification model is to predict *

6/6

- ☒ Categories
- ☐ Numeric values



✓ It is the average of the square differences between the real output value y_i and the predicted one \hat{y}_i *

6/6

- ☐ R2 score, coefficient of determination
- ☐ Accuracy
- ☐ Precision
- ☐ Macro-F1
- ☐ Mean Absolute Error (MAE)
- ☐ Recall
- ☐ Confusion matrix
- ☒ Mean Square Error (MSE)
- ☐ F1



✓ It is a square matrix of k rows and k columns, where k is the number of categories or classes. Each row and column represent the test and predicted values, respectively. A cell represents the percentage of test samples of the row class predicted as the column class. *

☐ R2 score, coefficient of determination

☐ Accuracy

☐ Precision

☐ Macro-F1

☐ Mean Absolute Error (MAE)

☐ Recall

☒ Confusion matrix

☐ Mean Square Error (MSE)

☐ F1



✗ It calculates the percentage of correct predictions. Its values range between 0 and 1, where 1 represents that all the test samples were predicted correctly. *

0/6

- ☐ R2 score, coefficient of determination
- ☐ Accuracy
- ☐ Precision
- ☐ Macro-F1
- ☐ Mean Absolute Error (MAE)
- ☐ Recall
- ☐ Confusion matrix
- ☐ Mean Square Error (MSE)
- ☒ F1

✗

Respuesta correcta

- ☒ Accuracy



✓ It is the average of the absolute differences between the real output value y_i and the predicted one \hat{y}_i * 6/6

- ☐ R2 score, coefficient of determination
- ☐ Accuracy
- ☐ Precision
- ☐ Macro-F1
- ☒ Mean Absolute Error (MAE) ✓
- ☐ Recall
- ☐ Confusion matrix
- ☐ Mean Square Error (MSE)
- ☐ F1

✓ It is used for fitting the model (calculating the parameters) * 6/6

- ☒ Training set ✓
- ☐ Testing set
- ☐ Validation set

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