evaluating learning algorithms a classification perspective

#evaluating learning algorithms #classification algorithms #machine learning evaluation #algorithm performance metrics #predictive model assessment

Explore the critical aspects of evaluating learning algorithms, specifically focusing on classification techniques. This guide offers insights into various performance metrics and perspectives to assess the effectiveness and reliability of predictive models in machine learning.

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Classification Problem Statement
Binary Classification Problem
Recall and Precision
Recall

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Machine Learning Algorithms
Logistic Regression
Decision Tree

Random Forest
Support Vector Machine
Model Pipeline
Confusion Matrix & Accuracy
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Accuracy
Precision
Recall
F1 score
AUC (Area Under the Curve)
Crossentropy
MAE (Mean Absolute Error)
Root Mean Squared Error
R2 (Coefficient of Determination)
Cosine similarity
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Other Metrics
Repeated Random Subsampling
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Building a Model
List Comprehension
Applying Model
Putting It Together
Compare to KNN Results
Looking at Feature Weights
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Lesson 4 - How to Approach Machine Learning Projects
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Linear Regression
Logistic Regression
Project: House Price Predictor
Regularization
Support Vector Machines
Project: Stock Price Predictor
Principal Component Analysis
Learning Theory
Decision Trees
Ensemble Learning
Boosting, pt 1
Boosting, pt 2
Stacking Ensemble Learning
Unsupervised Learning, pt 1
Unsupervised Learning, pt 2
K-Means
Hierarchical Clustering
Project: Heart Failure Prediction
Project: Spam/Ham Detector
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How do zeros and ones turn into the internet

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The Oxford Internet Institute
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How do algorithms work
Algorithms vs humans
Ethical considerations
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Overview
Supervised Learning
Linear Regression
Decision Tree
Random Forest
Neural Network
Classification
Support Vector Machine
Classifier
Unsupervised Learning
Dimensionality Reduction
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Confusion Matrix
Sensitivity, Specificity, False Positive Rates
Area Under the Curve (AUC-ROC)
F1 Score
Why using Regression metrics differ from those of Classification
Mean Squared Error & Root Mean Squared Error
Mean Absolute Error
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Model Objectives
Evaluating Classifier
Confusion Matrix
Precision
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Linear Regression
Logistic Linear Regression
Decision Tree
Random Forest
Adaptive Boost
Gradient Boost
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KNearest Neighbor
Support Vector Machines
Unsupervised Learning
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