

Supervised

Wednesday, February 15, 2023 12:58 PM

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Supervised Machine Learning

Supervised Machine Learning is a set of algorithms that train on historical data and then predict output using the training dataset. Because of its accuracy and low time complexity, it is one of the most common machine learning types.

Prediction

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Labeled Data

Model training

Prediction

Prediction Dog

Cat Dog

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Cat Dog Labels Test Data

Applications

- Spam filtering
- Facial recognition
- Disease identification
- Fraud detection

Some common ML Algorithms

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Difference between regression and classification

Classifying between 2 classes or predicting a category--

classification--confusion matrix and accuracy for valuation

Trying to predict a continuous value--**regression--**

r2 for evaluation

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Some common ML Algorithms

- Linear regression, Logistic Regression, KNN, Decision Tree

Steps

- Prepare Data
- Decide target(y) and feature(x)
- Split into test and train
- Model using train data
- Predict using test data
- Evaluate using predicted and actual results
- For Classification Accuracy and Confusion matrix
- For regression R2 value
- Check for results for validation

Lets Start Machine Learning with simple Iris Data set

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