31/07/2028. Expa-Implement a Classifier Using Open Source Pataset

Aim: To implement classificated.

Woing an open Source Dataset.

Objective

- · To Undowstand the gundamentals of supervised classification
- · To train and test a classifier using date
- · To evaluate model porformance using accuracy.
 - · To violatize predictions and interpret

Bocodo code:

- 1) Import necessary libraries
- 2) Load dataset from sklearn = (digits)
- 3) spirt the dataset into features (x) and labels (y).
- 4) Divide the data into Graining and
- 5) Initialize K-NN (K-Nearcot Neighbors)

Class gion

- 6) Toroin the classifier Using Training data
- T) Bredict The Pabelo gon the tost data.
 - 8) Evaluate the purpormance Using accuracy and classification report
 - 9) Vivualize a smap sample predictions

Obsortation

- · The Classifica brained successfully on the
- . It achieved high accuracy in classifying unseen data
- · Visual inspection showed that prediction Values matched the actual labels in most cases

Rosult.

Implemented classifice using an open Source dataset.















