MINOR PROJECT

Project :- To perform classification analysis on Iris dataset. Perform any two classification algorithms and compare the accuracy.

Tools Used :- Google Colaboratory
Sklearn
Google Drive Mount

Algorithm :- K Nearest Neighbor Algorithm
Decision Tree Algorithm

K Nearest Neighbor Algorithm

K-Nearest Neighbour is one of the simplest Machine Learning algorithms based on the Supervised Learning technique.
K-NN algorithm can be used for Regression as well as for Classification but mostly it is used for Classification problems.

Decision Tree

Decision Tree is a Supervised learning technique that can be used for both classification and Regression problems, but mostly it is preferred for solving Classification problems. It is a tree-structured classifier, where internal nodes represent the features of a dataset, branches represent the decision rules and each leaf node represents the outcome.

The accuracy of the Iris dataset using the K Nearest Neighbor Algorithm is 1 (100%)

The accuracy of the Iris dataset using the Decision Tree Algorithm is 0.966666666666667 (96.6%)

The best algorithm for the Iris dataset is K Nearest Neighbor Algorithm because it has more accuracy than the Decision Tree algorithm.

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