Enf-2 Implement a Classifier using open-Source Dataset Aim =
To emplement a simple classifier using an open source dataset. Description: This experiment uses the inis dataset from scikit-learn, a well know open source dataset, to classify inis flowers anto three species using the K-Nearest Neighbors (KNN) algorithm. The classifier 9s evaluated. using a confusion matrix. 1.) Import the dataset and necessary libraries
2.) Split the dataset Ento training and test Procedure: 3.) Froir the KNN classifier on the training data u.) Predict the fest data and evalute using a confusion matrix. Program: from sklearn dafasets import load-iris from skleann. model - selection emport train-test_split. from sklear neighbors ampost Kneighbrors harrifier from sklearn. metrics Emport confusion-matrix X, y = Load-isis (return - X-y = True) X-train, 2-test, y-train, y-test = train-test_ split (ox, y, text-size =0.3) model = Kneighbors Clarrifier () model fit (ne train, y-train)

y-pred = model.predict (x-fest)
print(confusion-matrixe(y-fest, y-pred))

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A KNN darrifier was successfully implemented using the Iris dataset. The model was evaluated using a confusion matrix.

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