NAME: Aarnah Tamkdan Reg: RAZZIIO47010014.

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1	Exploring the. Deep Learning Platforms & Framewood	a 81/07/2025;	Charles of the same
2	Implement a Classifier using an open-source dotablet		
3	Study of Classifiers with respect to Statistical	7/8/2025	113/8/1
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Aim;

To implement a supervised machine learning using an open-source dataset.

Rendocode: > Import necessary libraries

- · pardas, scilit-learn, destaset, metrics, KNN KNeighbours Classifier.
- 2) Load the dataset

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- Use datasets. load_iris().
- 3) Prepare the data.
 - · Assign features to x, target to y.
- 4) Sprit into Training & Testing Sets:
 - · Use train_test_split(x, y, test_size-0.3, random state=42)
- 5) Instantiate the KNN Classifier:
 - · Knn=KNeighbours Classivier (n-neighbours=3).
- 6) Train the model.
- 7) Make Predictions.
 - · y-pred = knn. predict (x_test).
- 8) Evaluate the Classifier:
 - · Calculate accuracy: netrics accuracy. I score (y-test, y-pred)

Experiment - 2 traplement a 6/2/25 Observation. The KNN classifier is trained on the Iris dataset and tested : watch with unseen data. transfer of · Output with is displayed. · Lovering 'k' ear make the model more Jensitive to noise, while larger k ear smoother declaton Peur boundaries. toward out boot 40 KNN classifier was successfully implemented and tested using you an open-source dataset. " Accuracy: Inhist stop tings (+ 2 Beggs Precision! +192 test prior sel. (Sezzunandran-Minimal) zousoungiand a mad : 7) Make Redictions. · Y. poed - War. gredict (1x text) eltrande for overlan: · Calculate accuracy; ructrics, according Res jupyter-ra2311047010014@cintel:~/DLT\$ python knn-week1.py

Accuracy: 1.0

Precision: 1.0

Recall: 1.0

F1 Score: 1.0