2. Implement a Classifier using open source debat Asm : Implementing a classifier using a open Source datasel Objective : 1. Load and explore ivis dataset 2 Preprocess the data 3 Apply logistic regression for classification 4. Evaluate the model Using accuracy & other classified metrics Pseudo Code: 1. Import required libraries: - Sklearn, Pandas, numpy, matplotlib 2. Load Iris dataset using sklown darlasets 3. Explore dataset iris dataset: - Features: Sepal length, sepal width, petal length, petal width - Target: 3 classes (setosa, versible, vivginica) 4. Splil dala: Train 2 test split (80% toain 2 20% test) 5. Train Logistic regression model on training data 6 Predict labels on lest data 7. Evaluate Performana: - accuracy

P. (4)

Observation:

- 1. Dataset
 - · Ivis datasel Contains 150 samples, equally divided int 3
 - · Each sample has 4 features
- 2. Model performance
 - · Logistic regression achieved accuracy approximately

Result: Successfully implemented a Classifier using open Source dataset

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