README.md

This project uses the Iris flower dataset to classify flowers into three species using:

- Decision Tree Classifier
- Logistic Regression

Tools Used

Python, Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn

Dataset

Columns: sepal_length, sepal_width, petal_length, petal_width, species
Total Samples: 150

Steps

- Load dataset
- Remove ID column (if present)
- Detect target automatically
- Visualize (pairplot + heatmap)
- Train-test split (80–20)
- Train models
- Compare accuracy

Results

Decision Tree: 100% accuracy

Logistic Regression: 96.6% accuracy