

Codveda Technologies Internship For ML Task 3: Implement K-Nearest Neighbors

Dataset-Iris.csv

Objectives:

Train a KNN model on a labeled dataset. Evaluate the performance using accurac

Tools: Python, scikit-learn, pandas. Description: Build a KNN classifier to classify d

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[1]: #python libraries
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.model_selection import train_test_split #Model
from sklearn.preprocessing import StandardScaler #Preprocessing
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import accuracy_score, confusion_matrix, classif
```

```
[2]: df=pd.read_csv(r"C:\Users\DELL\Downloads\iris.csv")
df
```

[2]:

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa