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# Tille : KNN (K-Nearest Neighbors)


import numpy as np
import pandas as pd


dataset = pd.read_csv('/content/pima-indians-diabetes.xls')
X = dataset.iloc[:, [2, 3]].values
y = dataset.iloc[:, -1].values



from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.20, random_state = 0)


from sklearn.preprocessing import StandardScaler
sc = StandardScaler()
X_train = sc.fit_transform(X_train)
X_test = sc.transform(X_test)



from sklearn.neighbors import KNeighborsClassifier
classifier = KNeighborsClassifier(n_neighbors = 5, metric = 'minkowski', p = 2)
classifier.fit(X_train, y_train)
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KNeighborsClassifier()
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y_pred = classifier.predict(X_test)

from sklearn.metrics import confusion_matrix, accuracy_score
cm = confusion_matrix(y_test, y_pred)
ac = accuracy_score(y_test, y_pred)



print(ac)
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0.6428571428571429
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