

LABORATORY WORK BOOK

report to me to delay

Name of the Student: HYMAKAR					Roll Number			
ss	CSE-B Semester		<u>VI</u>					6 5
Course Code: ACT CO8 Course Name: DMKD Laboratory								
Name of the Course Faculty. Do. D. DURGA BHAVANT Faculty, ID . 2415 E + 2515								
Exercise Number: Date: 15/6/24								
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Signature of the Student

Signature of the Faculty

START WRITING FROM HERE

8.1 Calculate Euclidean Distance

from sklearn. datasets import load-iris

from scipy. spatial import distance

impost numpy as np

i = load_irisc)

d = i.data

def ed (P1, P2):

return np. sart (np. sum (91 - p2) ** 2))

ni = int(input('Enter one Point: '))

n2 = int (input ('Enter two point: 1))

de = ed(d[ns], d[n2])

Print ('Euclidean distance between point & and

Point 23: 2:.243, format (n1, n2, de))

OUTPUT:

Enter one Point: 0

Enter two point: 100

o and Point Euclidean distance between

100: 3.84

ROLL NUMBER:

Commence of the second Get Nearest Neighbors from sklearn datasets import load - isis from sklearn. neighbors import Nearest Neighbors forstern armidistant, are peter more [= load - 1815() Approximate Social Resource Managerial Contract a d = i.data n = int(input('Enter no of neighbors to find:')) Kn = Neavest Neighbors (n-neighbors = n) Kn. fit(d) THE SEC STREET STREET, STREET Q PI = On horse Print ('Neavest neighbors for Point [3: 1 format (apr)) fy = x) = 17.11% for i in range(n): (93x) 351639.74 = Point (' Neighbor, [], Index: [], Distance: [:-2]) format (i+1, in [o][i], (Co : goodition [i])

OUTPUT:

Enter no.of neighbors to find: 5

Nearest neighbors for Point 0:

Neighbor 1, Index: 0, Distance: 0.00

Neighbor 2, Index: 17 Distance: 0.14

Neighbor 3, Index: 4, Distance: 0.14

Neighbor 4, Index: 39, Distance: 0.14

8.3 Make Predictions

from skiegon datasets import load isis

from sklearn. model-selection import train-test split

from sklearn, neighbors import kneighbors classifier

from sklearn. metrics import accuracy score

1 = 10ad_10isO

 $x = i \cdot data$

Y = i-target

xt, xte, yt, yte = toain-test_split (x, 4, test_size = 0.2, test_size = 42)

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Kn = KNeighbors Classifier (int (input ("Enter No-of Neighbors: 1)))

Kn. fit (xt, yt)

4P = Kn. Predict (xte) :(1) = 1 mor

a = accuracy_score (4te, 47)

Point ('Accuracy: 1, a)

QUTPUT:

Enter No. of Neithbors: 3

ACCU8acy: 0.96666667

Meighbor I Index: II, Distance: O. IH

Veighbor 3, Index: 1, Distance: 0.14

Melithon H, Index: St. Distance: 0-14