Name: Anik Kumaro Majumdaro

Assignment-KNN forc Regression

	Index	age :	Income(K)	
	1	21	13 60	
	2	20	55 cmits	HI MAE Calcal
	3	22	60	~~~~
	-41+	141.8122014	10.61 + 120- 45.63	MAE = = (135
	5	23	65	
	6	21	62	
1	7	25	65	2000
1	8	30	70	., MAE = 9.91
1	9	31	68	
-	10	2200	167, 34 \$ & MHE =	Aw: MsE =
P Levy	Mark Control of the C	•		

Task-01

Your Objective is to implement the K-Nearrest Neighbors (KNN) algorithm with K=3. Use this ollgorithm to predict the income value, with the given input value X=22

Som: ED₁ =
$$\sqrt{(22-21)^2}$$
 = 1
ED₂ = $\sqrt{(22-20)^2}$ = 2
ED₃ = $\sqrt{(22-22)^2}$ = 0
ED₄ = $\sqrt{(22-22)^2}$ = 0

$$ED_5 = \sqrt{(22-23)^2} = 1$$

$$ED_6 = \sqrt{(22-21)^2} = 1$$

$$ED_7 = \sqrt{(22-25)^2} = 3$$

$$ED_8 = \sqrt{(22-30)^2} = 8$$

$$ED_9 = \sqrt{(22-31)^2} = 9$$

	And the second of the second o	Company of the State of the Sta	ALTO CONTRACTOR STREET, STREET
age	Income(K)	Distance	
21	60	1	a
20	55	2	5
22	60	0	C
22	61	0	d
23	65	1	e
21	62	1	+
2530	65	3	9
30	70	8	h:
31	68	9	i
22	62		
	21 20 22 23 23 25 25 30 31	21 60 20 55 22 60 22 61 23 65 24 62 25 65 30 70 31 68	21 60 1 20 55 2 22 60 0 23 61 0 23 65 1 25 62 1 25 65 3 30 70 8 31 68 9

CLOCECTCALDEGCHZi

Since K=3 so we will take the first three

Incomek)'s value according to distances ascending,

Otidere.

Now,

Mean: (60+61+65)/3

_ Mean = 62

So, Input value x=22 & the predict income

ne =	ornation.	(1) Ansint	age	2 mdex
90 -	L.	TIM	21	1
	2	55	0.0	2
0	ð	00	22	3
b	0	10	22	- Au
9			23	J
0	1-9	29	100	5
		E9 -	25 8-8-	7
· j	3	OF	30	8
	9	80.	31	9
		1351	66	Toi

is is 8>03007>9>6>0

Since her so so we will take his fingle these

Subjection of members of members of miles extended