29
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SINOKOR Praktikum Machine Learning

Tugas Seri 3 KNN

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Pertanyaan :

Sebuah lembaga perbankan ingin membangun sistem prediksi penerimaan pinjaman nasabah 3 atribut yaitu umur (x1), credit rating (x2) dan nilai pinjaman (x3).

No	x1	x2	x3	y
1	40	5	60	Tolak
2	50	8	40	Terima
3	50	7	30	Tolak
4	20	4	60	Terima
5	80	4	80	Terima
6	60	6	60	Terima
	50	3	40	

Menggunakan metode Euclidean Distance

x1 (umur)	x2 (credit rating)	x3 (nilai	Distance (50,3,40)
40	5	60	$(40-50)^2+(3-5)^2+(60-40)^2 = 100+4+400 = (44)^3$
50	8	40	$(50-50)^2+(8-5)^2+(40-40)^2 = 9,$

[illegible] machine learning

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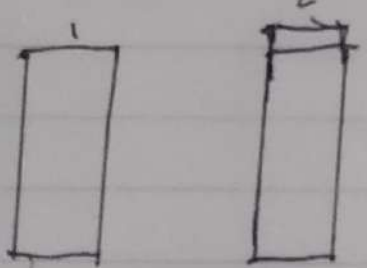
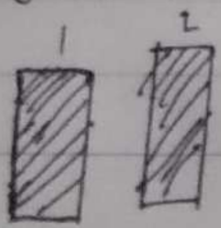
50	7	30	$(50-50)^2 +$ $(7-5)^2 + (30-40) =$ $0 + 4 + 100 =$ $104 - 1^2$
70	4	60	$(70-50)^2 + (4-5)^2 +$ $(60-40)^2 + 400$ $= 80115$
80	4	80	$(80-50)^2 + (4-5)^2 +$ $(80-40)^2 = 900 + 1$ 1600 $= 25016$
60	6	60	$(60-50)^2 + (6-5)^2$ $+ (6-3)^2 + (60-40)^2$ $= 100 + 1 + 400$ $= 50114$

Jika nilai K= 3 data uji terima atau tolak?



terima tolak

Jika nilai K= 4, data uji terima atau tolak?



diterima · ditolak

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Kelebihan algoritma KNN

- akurat untuk data numerik
- sampel
- efektif jika data besar dan f

Performa cukup baik tahan terhadap data a cat ih yg noisy