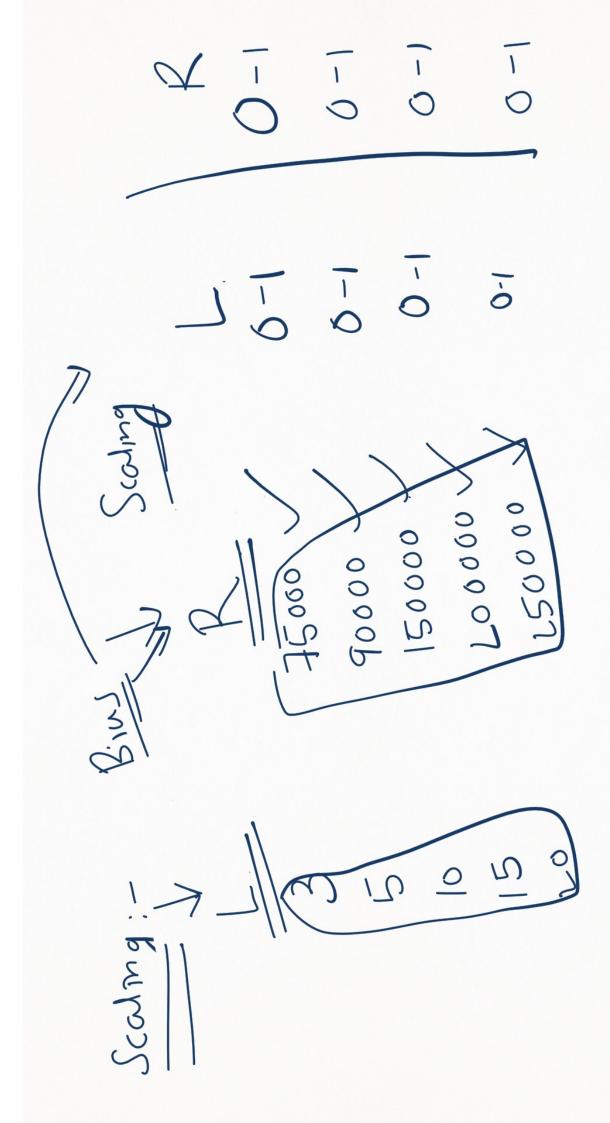
3. Distance Metrics (ED, MD) l'implistance mochis Longlementation of KNN Johns the problem KNIN DEFINITION 2 Kin KNN

. Hemplate for ML Classification Algo. D. Evaluation of Classification Algo E. Accuracy 3. KNN Regression Algorithm a. Confusion Madrix L. Precision C. Recall d. f. Score Agenda:-



a Classification model perturmance. Fualuate Confusion Matrix.

- Assume Jou have some 87mp of tever. You visit a doctor.

passi bilites

Have forer

Have forer

ML Algoriam

No ferer.

Hour Fever. True parting DOC: - Has tongo MLAIJU: - NIO FENCA (False Negative) MC:- Has Fevery Do: Has tore 5 Mr Prediction Ductor), My :- No for v Actual (False porting MC:- No fover MC:- Has fover Dec :- No town No Far Have bever A ctual:-

=) Doc -> No Fever ML -> No Fever Algo 56 = TN (T) ML > Have tower Doctor = Dac > Have Fever N=100

10 Fever. Has Hover ML = A140 = 000 == スゴ コニ ML - Has Fever No Freez =) Doc =

big nos. Small nos. TP & TN Should have FP & FrI Should have Pur Mastal (Social Metwork Ads) MLA190 = No MLA190 = YES MLA190 = No MCAYOU => Yes = K=Ye M-14ート3-M0 下一十一十二円 [p=20 > R= Yes FN = 12

Precision: - What proposition of positive identifications 1 83. 7497 ı J 17+FP Frecision:

Drewson uf 1 With 10' FP has a —I 11 0+1 X: A model

= 12.51. Reall:- What proportion of actual positives were * A model mth 'O'TN has a secall at I 20+12 p+d1 NY + AL NITALL

Accuray: -: 12+7

71+41 71+41 71+41

1 49+01

7 1+ t + h 9+ 0Z

FP+ FN

TPHTN + FIS +FN

4+12=20+64+6412

1 6.

precision + recall. L* Precision * read! 11 James

2* 0.83 * 0.625 0.83 + 0.625

1. 九一九 「