Prignary Georgian 03815602717 11.11.11 GRE-EICW)

Diplachine learning Method to predict how people hound rate movier, book etc.

Ansner Software used =11 Juby tex/ by thouse

Algorethm:

TUSE KNINI algorithm to clarify the data.

KNINI algorithm:

Let's take a rimple come to understand this algorithm following is a spread of red circlesicke).

L grey 3 quare (95).

your intend to Find But the class of the blue Star, Bs can Either be RL or Gs & nothing Elge.

The kincknin is the nearest neighbour we wish to raise yote promo Let's say k=3, Hence we will

now make a circle with BS and center Just as big

as to Enclose only three chats boined on the prade.

Ref to fig 2

the mree Glorest points BS 15 NI RC-thence wit good class & L there, the choice became very obvious as all three votes from the closent

neighbours went to Re. The choice of the

barometers is nothernoist in this elds. For getting the predicted class sterate foom 1 to total number of manking yator boints. In cal the distance b/ul test dama & Each row of training data. Here we will use fucledian distance as our distance metric since sa's the most popular method. The other metrics that can be used as Sine, conint E-t-c. 2. Sort the calculated distances in ascending order pried on distance values of 11 16 16 16 3, get top to rows from the sorted assays 1111 y, get the most frequent class of there rows 5. Return the predicted class. Representation of Lotoret 3 demontying closest conclinion: + knini also is wed an distract of tor classification using their ratings 1,0 11 31 11 11 10 11 81 81 11 11 11 Och 11 1 1 1 1 1 1 1 2) real 3 32 1 2 14 17 1 1 2 37 20 20 10 1 1 1 2 ety all to be stored a supplied to the supplied of the supplied to the supplied of the supplied to the supplied of the supplind of the supplied of the supplied of the supplied of the supplin

Estimate the prevision, recall bucheards tomborne of the decision tree classified. Answer Sof house wied: Jupyter/ bythen/WERA. Algorithmer Thoad the text clanification data from web link for datalet. Apply decision bared clamifier to calculate precision meso recall accuracy & F score Decoraci, 1 No of gave samples consected clarified) total no. of samples-F Scores = 7 the predictional f-measure or balanced f-score is the heremonic mean of precision 2 recalled the bush in Decision tree classifier: 4 - Aldorithm mill protoom tollowind park reconstruction I create root node for the hee; 2. If all examples are positive return left wools boiltive ' 30 blese if all examples are negative los rect leaf node 'negative' 4. calculate the Entropy of current shake" 5. For each attribute, calculate the Entrody with verpect to the attribute denoted by HCS) select the attribute which has more value of to Remove the attribute that of fest highest of from set of altrib conocurion; 1 Algorithm has been run on all the Insams for gin