I6MI31022

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Descriptive algorithm ton NM Lab6: ANN

Step1:

step6:

Step7:

Stepso

Start Start Step2: Grenorate the x and y co-condinates randomly and assigned their wasponding Jachual lebel as tollows: lebel as follones:

Step3: for (int i=0; is 100; i++) {

x = erand () -1-10; J= srand() 1.10;

it (y - 2 x - 1) 70 , Yactual = 1

else, jartual = 0

Intilized the weights as was-2-0, wy=1.0 stup4: and other hyperparameter like iterations

step5: Run forward propagation on each iteration and phedict ypredicted

Calculated error as (Jactual - Joredicted)

compute gradient and update weights thus perposiming back prapagation

Save the continue updating the model untill the Buroa minimues nuither

threshhold value

step 9: save the neights good further use

Step10: Take the inpute from the user too new out of sample x and y

pass it to trained model and Step 11: priecliet the output four the giner out of sample input.