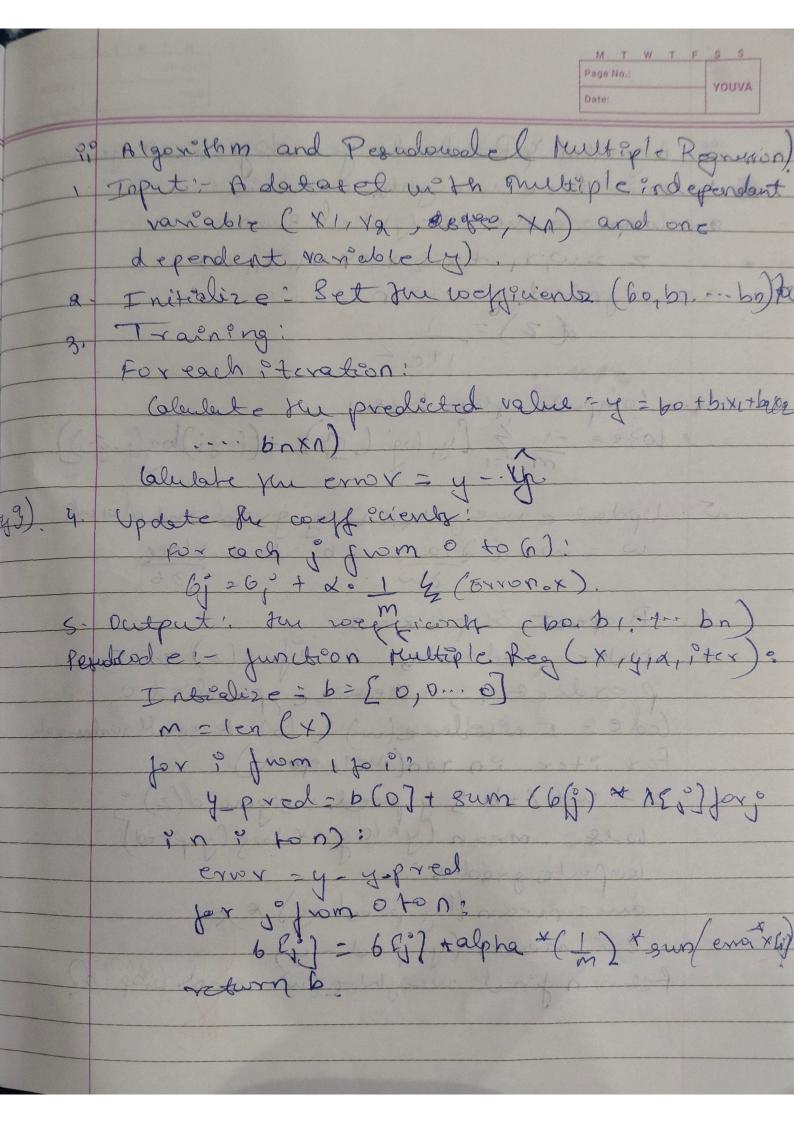
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YOUVA Linear, Multiple, togistic Regrossion. 24/08/25 ? Algorithm and Pesudowde (Linear Regrumin) I Input: A data set with one independent variable (x) and one dependent vanile (y) Initialère: Set the veglicients (M) (stop and (b) l'entercept) to 0 Training: tor each iteration Calulate the predicted value, (ity) = mx+6 Calulate me ervor : of Hextferor 3 2 y -16 Update for westwients? m= m + 1. 1 & (error. x) b=b+x.1 2 (errox) 4. Dutput: ten westiciones (m) and (b) fuctions Linear Regission (x, y, alphy, iteration) intialize mao, byo 1 = length (v) for ifrom (soiteration: y-Pred=mxx+b error = y-y-prod n=mfalpha +((n) * sum(error *x)
6=6 falpha *((n) * sum(error) return mib



Algorithm & Pesudoude for logistic regering 1 Instalize weights and tras 8. Compute the weighted sum: マールスのサイクショントラ 3 signoid function! (2)=) Itez 4. Lompute jene 638? 1088=-1 ½ [y, log (y) + ((-yi)log(1-gi)) m;=1 5. Update weight using gradient derukt w= w-d 2/ars b-b-d 2/beg 800 Repeat Steps 2-5. 7. Make predictions : if &(z) 7,05 perdict i otherwise predict o Code: I notestice (w) & (b) & small random valy tox itex in ran(non-ebochs). z = w+x+b; y-pred: sigmoid(z); west-mean (yx log x log (y-prod) lompute gradus. dw: mean (y-pred-y) & b: mean (y-pred-y) Peter n final weights (w) and fortiglb?