LAB-4
Logistic Regression

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Lab-4
Losb-4 Logestic Reguesion
Want to prudied whether a Bludent will
pais ar fail band on their Glicy bours.
The logistic suggestion model for been bound
and learned garameter are a = -5
a, 20.5.
a weite Logiste sugner eq " for this perable
Z= a+a, x y= 1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
200000000000000000000000000000000000000
5) Calculate the probability that a Student who Studies for I have well pass
2, 0, +0, 7 4, 1 (6)
2; a, +a, 7 9: 1+e-6.6) =-5+0.8(7) 9: 1+e-6.6)
= -5 +5.6 = 0.64
= 0.6/
Thought - 0 5 064 20 5
Threshold = 0.5 0.64 >0.5 The Shielest pass.
The second of th
c) Determine the predicted class for this
2) Determine the predicted class for this Student based on thrushold of one
to be at desired medicine to the terms

PAGE NO : 9) Consider Z = [3, 1.0] of 3 classes.

Sphly softmax fun to find probabile.

Value of 3 classes Q = So c2 c = 0.66 Co+C,+Co 2+1+0 0.244 So = c = 0.090 1) for dolaset file 'HP_comma_Sefr.csv' laving a divide 5 char infact on employee relinition ? July? employer Stayed (o) on lift (i) ii) what was the accuracy of Logistice seg model? is it good accuracy why as why rol? Accuracy = 0.76 = 76% is a duent according to -80 I it is most than sold then

PAGE NO: 2 pg 200 dalaret Slips ? if yes, who are they and Converting Categorical encoder dota into numerical form. -ation is necessary for further classific ii) were there any musing as inconsistent value in the dataset - how do handle There? There are incorrected value in the Animal rames column as There not Standardyat of Journale & uni) what does the confusion matrix till about the performance of your model all the eve one en diagonal shoular No mirridintificat of claves in No class beght are musclassfield

PAGE NO: DATE: 2/4/85 Lab-4 KINN (U- meant brightow Salaryk Parget Rank distance V914 52169 55 23 V1021 70 24 40.44 60 41 31.04 70 43 60.07 40 38 100 35 2 /32+602 K=3 - N YAY

PAGE NO : For the Deis doloret. ng multiple K value ling this accionacy. The accuracy brown hat for k are compared the most optional K is selected here K= 3 diabelie dolosel how to perform it? Leature Scaling ensure all features condubite equally to the measure neighboros Faling is done to that like glucos I god age don't domina the one with the Smaller granges