

Lab-4

Logistic Regionino

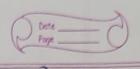
1) Rinary clanification:
$$a_0 = -5$$
 (interapt) and $a_1 = 0.3$ (coeff for study hours)

(a)
$$\frac{4}{5} = 0.8 + (-5)\pi$$
. \times $9 = \frac{1}{1 + e^4}$

(b)
$$9=4$$
, $9=45+6.3(9)$
 $=-5+5.$
 $=-5+5.6=0.6$

$$\sqrt{(x)} = \frac{1}{1 + e^{0.6}} = 0.64$$

-	HR_dataset (bjinay)
	P-do A
- (î)	Startistactom level, slaray, time spent at the
	Startidaction level, slaray, time expent at the
(ii)	
_	Reasonably good but not perfect. Because the factors might be affected by factors outside the dataset.
_	Because the factors night be affected by
_	factors outside the dataset.
-	too dataset (multidom)
	15/6 9/13/19
(j)	animal column was chopped, as it was not useful for clanification, just an identifier. encoded clan-type using habelfneoder Categorical variables converted to numeric
-	useful for clanification, just an identifier
GO	exceed clan-type wing habelforcodes
	cuegorial variables converted to numero
(ii)	No missing values
(3:1)	
(iii)	All the number are in diagonal nence therefore from mixidentification of clarace
	f no micidentification of clamas,
(iv)	No clan types 1200
	No clan types were misclanified
	(0,1,6) 12
	00.0 GEO.08 50 0
	92-12-69
	NH6.0 - 5 9
	0340460
	00:0:09
	9+12+6



KNM (K- Neavest Neighbours)

	NIG (K. Tallaces)
	O Company of the comp
	Person Age Salaute Target distance lant.
	A 18 50 N 39.84 (914 1) 5
	R 23 55 N 4657 2169 \$ 4
	C 24 70 N 31.9 JID21 2)
	p 41 60 y 40.44 \$ 34
	E 43 70 Y 31.04
) ble	F 38 40 y 60.07 6 6
	× 35 100 2
	2000
+	$\sqrt{(38-35)^2+(40-100)^2}=8+60^2=9+3600=60.08$
	$\sqrt{(42-35)^2+(70-100)^2} = \sqrt{8^2+30^2} = \sqrt{964} = 31.04$
	2 [1006 10011]
	$\sqrt{(41-35)^2+(60-100)^2}=\sqrt{6^2+40^2}\sqrt{1616}=40.44$
	123 -> N Y 1 Y
	1 rie dotast
7	How to chook & value
_	lesting multiple k value and computing
	lesting multiple k value and computing thus a curracy. The accuracy and error rate for the k's one compared and the most formal k is selected here k=3.
	for the ky one compared and the prost
	grand t is selected
	here K=5.

diabetes detard. o) What is the purpose of feature scally? How to perform it? Feature scaling ensures all features
contribute equally to the nearest neighborn
Scaling is done so that features tike
Glucose age don't dominate the one with
the smaller ranger + 1(38 35 P + (40-140) / 5760° - 19+2600 feeting weethple to value and compute