92.57 1/	12K 5(50 N)
) y= sigmoid(w,x,, wzxz+b), \( \frac{1}{2} = 0.05 \), N=bakh	136 £ 52160 Size = 2 (1
log loss = -1 \(\frac{z}{\tau}\) (\(\gamma\) (\(\gamma\) \(\gamma\) (\(\gamma\) \(\gamma\) (\(\gamma\) \(\gamma\) \(\gamma\) (\(\gamma\) \(\gamma\) \(\gam	= weights - 7 Pwl
Ful: $\frac{\partial \log lon}{\partial \hat{y}} = -1$ $\mathcal{T} \left( \begin{array}{c} \hat{\mathcal{X}} - \hat{\mathcal{Y}} \\ \end{array} \right)$ , $\begin{cases} \frac{\partial L}{\partial \hat{x}} - \frac{\partial L}{\partial \hat{y}} \\ \frac{\partial \hat{y}}{\partial \hat{y}} & \frac{\partial L}{\partial \hat{y}} - 1 \\ \frac{\partial L}{\partial \hat{y}} - 1 \\ \frac{\partial L}{\partial \hat{y}} - 1 \\ \frac{\partial L}{\partial \hat{y}} - 2 \\ \partial L$	$\frac{\delta \hat{\beta}}{\omega}, \begin{cases} \frac{\delta \hat{B}}{\delta \omega}, & \infty, \\ \frac{\delta \hat{\omega}}{\omega}, & \infty \end{cases}$
Calculation from Internet 2.3 $\frac{\partial L}{\partial b} = \frac{\partial L}{\partial b}$	$ \begin{array}{c c}  & \partial y = xy \\  & \partial w_1 \\  & \partial b & \ddots \\ \end{array} $
Batch 1: $(\hat{\beta}_1 = (1)(22) + (1)(1) + 1 = 2.22$ Sig = 0.902	$\begin{cases} \frac{\partial y}{\partial b} = 1 \end{cases}$
δ2 = (1)(25) + (1)(-1) +1 = 0.25 Sig = 0.562  →	دادی انعام محاسب شکتر آ
$v_{t} = \frac{1}{2} - \frac{(0.05)(1 - (2.747))}{2} = 0.932$ $v_{t} = 1 - \frac{(0.05)(1 - (2.596))}{2} = 0.836,  b = 1 - 0.05(1)(6.05)$	<u> </u>
Batch 2: { 8. = (0.932)(.47) + (0.836)(1) + 0.698 = 1.972	Sig = 0.877
(at-w.232)(.50) +10.05 \$ .7(-1) + 0.898 = 0.348	Sig = 0.585
$u_1 = 0.932 - 0.05(0.62\pi + 1)) = 0.901, \omega_2 = 0.836 - 0.05$	5(-1.667)=0.919
= 0.698 - 0.05(+1.131 ) = 10.642	
Batch3: $\{\hat{y}, =(0.901)(.46) + 0.919(1) + 0.642 = 1.975 - \hat{y}, =(0.901)(.56) + 0.919(1) + 0.642 = 2.065 - \hat{y}, =(0.901)(.56) + 0.919(1) + 0.642 = 2.065 - \hat{y}, =(0.901)(.56) + 0.919(1) + 0.642 = 2.065 - \hat{y}, =(0.901)($	→ 0.878
1, = 0.901 - 0.05 ( 0.251194) = 0.913 , wz= 0.919 - 0	).05( -0.4 92°) ± 0.94

PAPCO

ecti	T May Top
امنان (ما ملا) و وحد اورا (عداد) منان) ماسرورت	م مال الاعا وحد بل
1) - 1 ((-1) log(0.902) + (1-41)log(0.098) + (-1)log	
$(0.798 (0.22) + 1.035(1) + 0.42 = 1.63 \rightarrow 0.8$	36
0.798(a.25) + 1.035(-1) + 0.42 = -0.415 -> 0	.397
→ loss => 1. 85 s	
ودى كو من الإست و وريد في كوالى توقيع وده كده است وي م	pio de bue +
من عاص در عاقد مد موت طرونه ميان . (رصحات مستر رسع در دار	سَنَى رحمتَ اللهِ الكارْسُد (ت
linear Regression: $\hat{y} = \omega_1 x_1 + b$	
ŷ = 0.5 → accision boundary	
$u_1 z_1 + b = 0.5$	
for x < 3.1 y < 0.5, x > 4.9 y> 0.5	5 2 3 5 7 5
logishic Regression: j= Sigmoid(w,x,+b) = 0.	1+e-2
e-2-1, -2.0-2. wx.b.o, xb,	
مراكب مدركاد توصوات و مده كار المار كالمراكبة توصوات	م حل على أنده ومضيع
	دار رست.
060	
CO	\$2.2 to 2