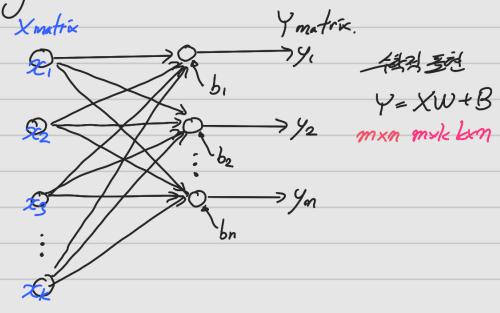
Deep Learning - 4334 3350.

1.SLP= 25-

a) Regression - अप- श्रिय- येश - नेय अप्र



(देख्य)

(04454)

$$\frac{\partial L}{\partial w_{ij}} = \frac{\partial L}{\partial Y} \cdot \frac{\partial Y}{\partial w_{ij}}$$

Wyd-8842 SE Y842 Idald.
Yij, Yej -- Ymj & mald Y8t.

$$\frac{\partial L}{\partial V_{ij}} = \frac{1}{mn} \cdot 2(labelij - V_{ij}) \cdot C1)$$

$$\frac{\partial V_{x,j}}{\partial W_{ij}} = \frac{X_{x,i}}{X_{x,i}}$$

$$\frac{\partial L}{\partial W} = \frac{b_{i,s}}{x_{i}} \cdot \frac{b_{i,s}}{b_{i,s}} \cdot \frac{b_{i,s}}{b_$$

so 
$$\frac{\partial L}{\partial w} = (-2 \times \frac{1}{ann}) \cdot X^{T_0} \cdot (label matrix - Y matrix) kx n matrix.
(kxn) = Diff matrix (mxn)$$

b) Binary Clasification - 12 30

PAZ Binary Classification = All 2/1 ALL ASO SERV.

1. Signoid function - logit value = 04 1444 ALLA ANSA ANSAE HABBET

(result of NN)

0.5 Signoid(x) = 600 = 1+e-x

logit.

2. Coss-Entropy (对 Entropy); 千 建設 P,Q가 千吨에, 千 提出가 뉴서는 张元 레쉬 숫柱의 포함히 #한 제영어.

 $H(P,Q) = \frac{m}{2} P_i \log \frac{1}{\xi_i} = \frac{m}{2} - P_i \log \xi_i$ 

- d 3+ Enlays = = 3+43+ - 3-44+1 = 25 = 244. Binary Classification and Pol ad;

Street 2 300 नवर्गि विकर्णी अपट अखेला विट उठाई अंद्रेडल

PE संस्थित, विट विकर्णी cross entropy है सिसी किन्दि हैंगी,

- डेमीह मैस्टिन.

es P: label data. Q: predicted probability.

at given inpart data (Xi)

<Xi, Xi2 ···· Xit > this is a conclition

and g: is predicted probability, when Xi's conclition is given.

label data P: = 0 = 159 = 400ct.

of P:= 3219 1= (Xi) at at 250ct.

H(P,G) है न्द्रिक स्वेश केन अंद्रिक केन्द्रिक केन्द्रिक