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 $J = \frac{1}{N} \sum_{i=1}^{N} \frac{1}{\log p_i} + \frac{1-1}{2} \log (1-p_i)^2$ Birary Classification loss W2 13-W2 13-4 i E {12,3,5} $= -\frac{1}{4} \sum_{i \in \{1,2,3,5\}} log \int (W_1[6] W_2[i])$ $to sidive (b_12) true to torset (6.5) (couple to torset)$ Binary Goss entropy: $J = -\frac{1}{N} \sum_{i=1}^{N} \{t_i \log P_i + (1-t_i) \log (1-P_i)\}$

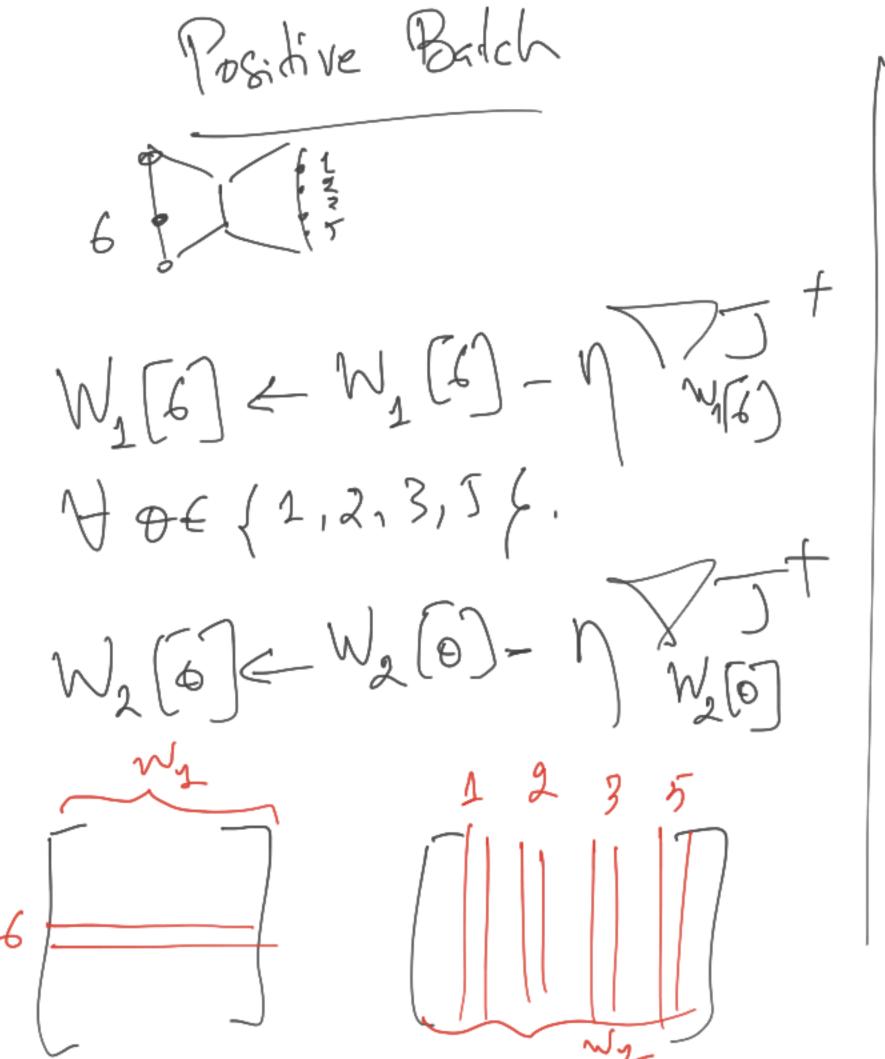
fake comple (7,6)

-1 5 log (o (W, [6] W, [i]) $= -1 \sum_{i=1}^{n} \left(1 - \sigma(w_{i}(6)^{T} w_{i}(i))\right) w_{i}(i)$ $\frac{1}{2} = \frac{1}{2} = \frac{1}$

$$= -\frac{1}{4} V_{W_{2}[i]} \left\{ log \left(\sigma(W_{1}[i])^{T} W_{2}[i] \right) \right\}$$

$$= +\frac{1}{4} \left(-1 + \sigma(W_{1}[6])^{T} W_{2}[i] \right) W_{1}[6]$$

$$\begin{array}{lll}
\nabla J^{-} &= +\frac{1}{4} & \overline{Z} & + \sigma \left(w_{\lambda}(a)^{T} w_{\lambda}(a) \right) w_{\lambda}(a) \\
V_{\lambda}(a) &= +\frac{1}{4} & \overline{Z} & + \sigma \left(w_{\lambda}(a)^{T} w_{\lambda}(a) \right) w_{\lambda}(a) \\
\nabla J^{-} &= -\frac{1}{4} & \overline{Z} & \overline{W_{\lambda}(a)} & \overline{W_{\lambda}(a)} & \overline{W_{\lambda}(a)} \\
&= -\frac{1}{4} & \overline{W_{\lambda}(a)} &$$



Wegative Bartch