|

Ctol: Very, Story, Jisappointing, interesting, bored, fresh

hinge loss + S&D

1. review I.

φ(x) = 5 di sappointing: \, story: 13

IW= (0,0,0,0,0,0), IW-QC)= 0, IW-QC)-y= 0 <1

yieldient of hinge loss = $-\phi(x)y[(w\cdot\phi(x))y<1]$

1. review 2

3. review 3

$$\phi(x) = \begin{cases} \text{interesting:} | story: | \end{cases} = [0,1,0,1,0,0]$$

$$|W \cdot \phi(x)| = -0.1 \cdot 1 + 0.1 = -0.1, |W \cdot \phi(x) \cdot y| = -0.1 | \langle 1|$$

$$||S|^{2}| = -\left[0, 1, 0, 1, 0, 0\right] \cdot \langle H| \cdot 1 = \left[0, 1, 0, -1, 0, 0\right]$$

$$||W \leftarrow \left[-0.1, -0.1, -0.1, 0, -0.1, 0\right] - 0.1 \left[0, 1, 0, -1, 0, 0\right]$$

$$= \left[-0.1, 0, -0.1, 0.1, -0.1, 0\right]$$

4 review 4

#2

1.20

Squared Loss
$$\Rightarrow$$
 Loss (1,4,110) = $(y - 6(10 \cdot \phi(x)))^2$

2.2b

① (055章 POHHHH 의을
$$-7$$
 $\frac{\partial Loss}{\partial p} = (y-p)-2\cdot(-1) = -2(y-p)$

$$\rho = 6(3), \ \exists = 100 \cdot \phi(x) \qquad \frac{d6(3)}{d3} = 6(3)(1-6(3)) = P(1-p)$$

$$\frac{\partial y}{\partial u} = \phi(x), \quad \frac{\partial p}{\partial u} = P(1-p)\phi(x)$$

此 chain Rule 사용

$$\nabla_{\omega} \log(r, y, w) = -2 \rho(y-p)(1-p) \phi(w)$$