## Recap

- We have some dataset of (x,y)
- We have a score function:  $s = f(x; W) \stackrel{\text{e.g.}}{=} Wx$
- We have a loss function:

$$L_i = -\log(rac{e^{sy_i}}{\sum_j e^{s_j}})$$
 SVM

$$L_i = \sum_{j 
eq y_i} \max(0, s_j - s_{y_i} + 1)$$

$$L = rac{1}{N} \sum_{i=1}^{N} L_i + R(W)$$
 Full loss

