Multi-dass Classification

We use softmax instead of sigmoid. e.g.,

Class1 -> 5 core = 2

class 2 -> Score=1

class 3 -> Score = 0

2/(2+1+8)

1/(2+1+0)

 $\theta/(2+1+0)$

but it doesn't work for regative scores.

to solve the issue, we make all the score positive.

it converts score to probability.

probability (class;) = $\frac{e^{z_i}}{\sum_{n=1}^{\infty} e^{z_i}}$ $z_i \cdots z_N$ are scores.

One-hot encoding: $c_0 c_1 c_2$ if 3 classes -> $\boxed{0011}$ when label is c2.