Logits & the Bernoulli Distribution

Weather Syood

W N Ben (0) = P(W)

O. probability of good weater

OELO, 13 because it is a probability

UNBen(y)

14E(-8,8) (1+ou)? -> 20975

 $N = \log(\frac{0}{1-0})$

0=0 -> 4= -8

0=0.5 74=0

0=1.0 > 4= + 8

4

But why is it called logit? How to use it with a bernoulli?

4 -> 0

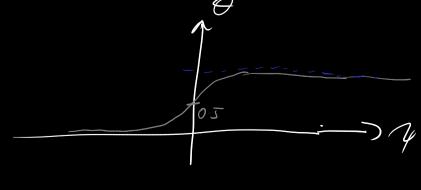
 $\gamma = \log(\frac{Q}{1-Q})$ |exp|

 $e^{y} = \frac{Q}{1-Q}$ (1-0)

4-07e4 = 0

e4 = 0 (1+e4) 1: (1+e4)

 $Q = \frac{e^{y}}{1+e^{y}} = \text{sigmoid}(y)$



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