Quiz 1

March 18th 2020

1 Lecture 15

$$f = (1 - \epsilon_t)e^{-\alpha} + \epsilon_t e^{\alpha}$$

$$\nabla f = 0$$

$$-(1 - \epsilon_t)e^{-\alpha} + \epsilon_t e^{\alpha_t} = 0$$

$$\alpha_t = \frac{1}{2}\log(\frac{1 - \epsilon_t}{\epsilon_t})$$

2 Lecture 16

- 1. AdaBoost increases the margins
- 2. Large margin in training indicates lower generalization error, independent of the number of rounds of boosting.