

COS 511: Theoretical Machine Learning

Hint on HW#4, problem 3a

Spring, 2014

Suppose, as in the problem, that f is the majority vote of g_1, \dots, g_k . Start by showing that

$$\sum_{j=1}^k \mathbb{E}_{x \sim D} [f(x)g_j(x)] \geq 1.$$