

Quiz Problem 5

Consider a two class classifier for a one dimensional $x \in \mathbb{R}$ with discriminant functions given by

$$\delta_0(x) = 15 \exp(30(x - 3)^3) - 10$$

and

$$\delta_1(x) = 15 \exp(30(-x + 3)^3) - 10.$$

Is this a linear classifier? Yes or no? Why or why not?