Machine Learning

Quiz 8

- 1. (1 point) What is the minimum performance required from a weak learner in AdaBoost?
- 2. (1 point) How does AdaBoost achieve diversity among its constituent weak learners?
- 3. (1 point) Is $k_1(\mathbf{x}, \mathbf{y}) := (\mathbf{x}^T \mathbf{y} + 2)^2$ a valid kernel?
- 4. (1 point) How about $k_2(\mathbf{x}, \mathbf{y}) := (\mathbf{x}^T \mathbf{y} 2)^2$?
- 5. (1 point) Jeopardy!

"A distribution over functions $f(\mathbf{x})$, such that for any finite set of samples $\{\mathbf{x}_n\}_{n=1}^N$ the joint distribution of function values \mathbf{f} , $f_n = f(\mathbf{x}_n)$, is Gaussian: $p(\mathbf{f}) = \mathcal{N}(\mathbf{f} \mid 0, \mathbf{K})$."

What is...