

Machine Learning Problemset 3

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Problem 12

Consider the class \mathcal{A} of all sets of the form:

$$A_\alpha = \{x \in \mathbb{R} : \sin(\alpha x) > 0\}$$

where $\alpha > 0$. What is the VC dimension of \mathcal{A} ? (Note that \mathcal{A} has one free parameter.)