

Advanced Machine Learning: Homework Problem Set IV (Online Learning)

Guidelines: You have to submit hardcopy of the solutions (printed or hand-written) by April 20, 2018 beginning of lecture class. Write your name and roll number clearly on top of the solution. Be clear and precise in your solution.

Problem 1:

Give an example of a hypothesis class \mathcal{H} , whose Littlestone dimension $L\text{-dim}(\mathcal{H})$ is ∞ .

Problem 2:

Show that for any hypothesis class \mathcal{H} , $VC\text{-dim}(\mathcal{H}) \leq L\text{-dim}(\mathcal{H})$.