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Machine Learning with Python-From Linear Models to Deep Learning

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3. Motivation

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Exercises due Mar 29, 2023 08:59 -03 Completed

Review: True or False

1/2 points (graded)

Consider the classification decision rule

$$\hat{y} = \operatorname{sign}\left(\theta \cdot \phi\left(x\right)\right)$$

where $x\in\mathbb{R}^d$ represent input data and $y\in\{1,-1\}$ is the corresponding predicted by omitted the bias/offset term for simplicity.

Given the model above, determine if the following statements are True or False.

1. The feature map ϕ is function from \mathbb{R}^d to \mathbb{R}^d .



2. If $\phi(x) \in \mathbb{R}^D$, then the classification parameter θ is also a vector in \mathbb{R}^D . (Answar written.)



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