3. Margin Boundary

Exercises due Feb 15, 2023 08:59 -03 Completed

Margin Boundary

0:00 / 0:00 1.0x

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The **decision boundary** is the set of points x which satisfy

$$\theta \cdot x + \theta_0 = 0.$$

The **Margin Boundary** is the set of points x which satisfy

$$\theta \cdot x + \theta_0 = \pm 1.$$

So, the distance from the decision boundary to the margin boundary is $\frac{1}{||\theta||}$.

Margin Boundary 1

- The margin boundaries move closer to the decision boundary
- The margin boundaries move further away from the decision boundary
- The margin boundaries converge to a certain location no matter what

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