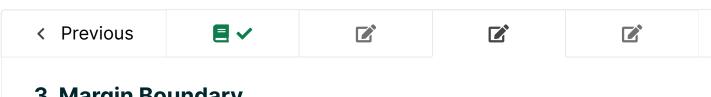


Machine Learning with Python-From Linear Models to Deep Learning

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3. Margin Boundary

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Margin Boundary



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The **decision boundary** is the set of points $oldsymbol{x}$ which satisfy

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

The **Margin Boundary** is the set of points $oldsymbol{x}$ which satisfy

$$heta \cdot x + heta_0 = \pm 1.$$

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

Margin Boundary 1

The m	argin boundaries move	closer to the decision boundary
The m	nargin boundaries move	further away from the decision boundary
The m	nargin boundaries conve	erge to a certain location no matter what
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