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2. Generative vs Discriminative
models

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2. Generative vs Discriminative models

Generative vs. Discriminative models



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Generative vs. Discriminative models

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Which of the following option(s) is/are true about generative and discriminative models? Choose all that apply from the statements below:



Generative models model the probability distribution of each class



Discriminative models model the probability distribution of each class



Generative models learn the decision boundary between the classes



Discriminative models learn the decision boundary between the classes



Solution:

Generative models work by explicitly modelling the probability distribution of each of the individual classes in the training data. For instance, Gaussian generative models fit a Gaussian probability distribution to the training data in order to estimate the probability of a new data point belonging to different classes during prediction.

Discriminative models learn explicit decision boundary between classes. For instance, SVM classifier which is a discriminative model learns its decision boundary by minimizing the distance between training data points and a learned decision boundary.

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