

P(y|X) = 
$$\frac{1}{2}$$
 P(x|y=1)

2 P(y=-1) P(y=1)

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3 P(y=-1) X=X') = 0.8

P(y=-1|X=X') = 0.8

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P(x|X=1) P(y=1)

Andre = P(X\_1) P(X\_1)

P(X\_2) P(y=1) =  $\frac{1}{2}$  P(X\_1)

Binary Classification

y =  $\frac{1}{2}$  P(X\_1) P(Y=1)

P(X\_1) P(Y=1)

P(X\_2) =  $\frac{1}{2}$  P(X\_1)

P(X\_1) P(X\_2)

P(X\_2) =  $\frac{1}{2}$  P(X\_1)

P(X\_1) P(X\_2)

PLY=リニモ1

PLY=1)=1-ti

$$= \frac{1}{\sqrt{2}} \left( \frac{1}{\sqrt{2}} - \frac{1}{\sqrt{2}} \right)^{2}$$

$$= \frac{1}{\sqrt{2}} \left( \frac{1}{\sqrt{2}} - \frac{1}{\sqrt$$

