Naive Bayes Classifier

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Optimal Classification (Bayes classifier)

$$f^* = \arg\min_f P(f(X) \neq Y)$$

Even the optimal classifier makes mistakes $R(f^*)>0$ Bayes rule $P(Y|X)\propto P(X|Y)P(Y)$

- P(X|Y): class conditional distribution
- P(Y): class probability