



Aula #19

Algoritmos de Classificação: Regressão Logística

Gabriel Cypriano 28/ago/2018



Como será?





Machine Learning Repository

Center for Machine Learning and Intelligent Systems

Bank Marketing Data Set

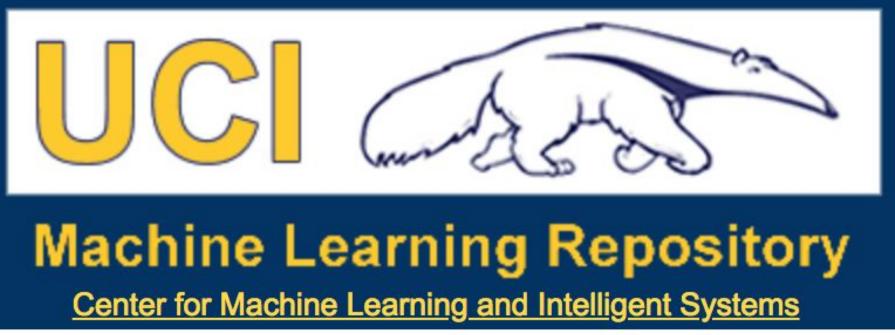
Download: Data Folder, Data Set Description

Abstract: The data is related with direct marketing campaigns (phone calls) of a Portuguese banking institution. The classification goal is to predict if the client will subscribe a term dep

About Citation Policy







Bank Marketing Data Set

Download: Data Folder, Data Set Description

Abstract: The data is related with direct marketing campaigns (phone calls) of a Portuguese banking institution. The classification goal is to predict if the client will subscribe a term dep

About Citation Policy

- Ligações de um banco português ofertando investimento financeiro
- Target: o cliente investiu ou não

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Análise Exploratória



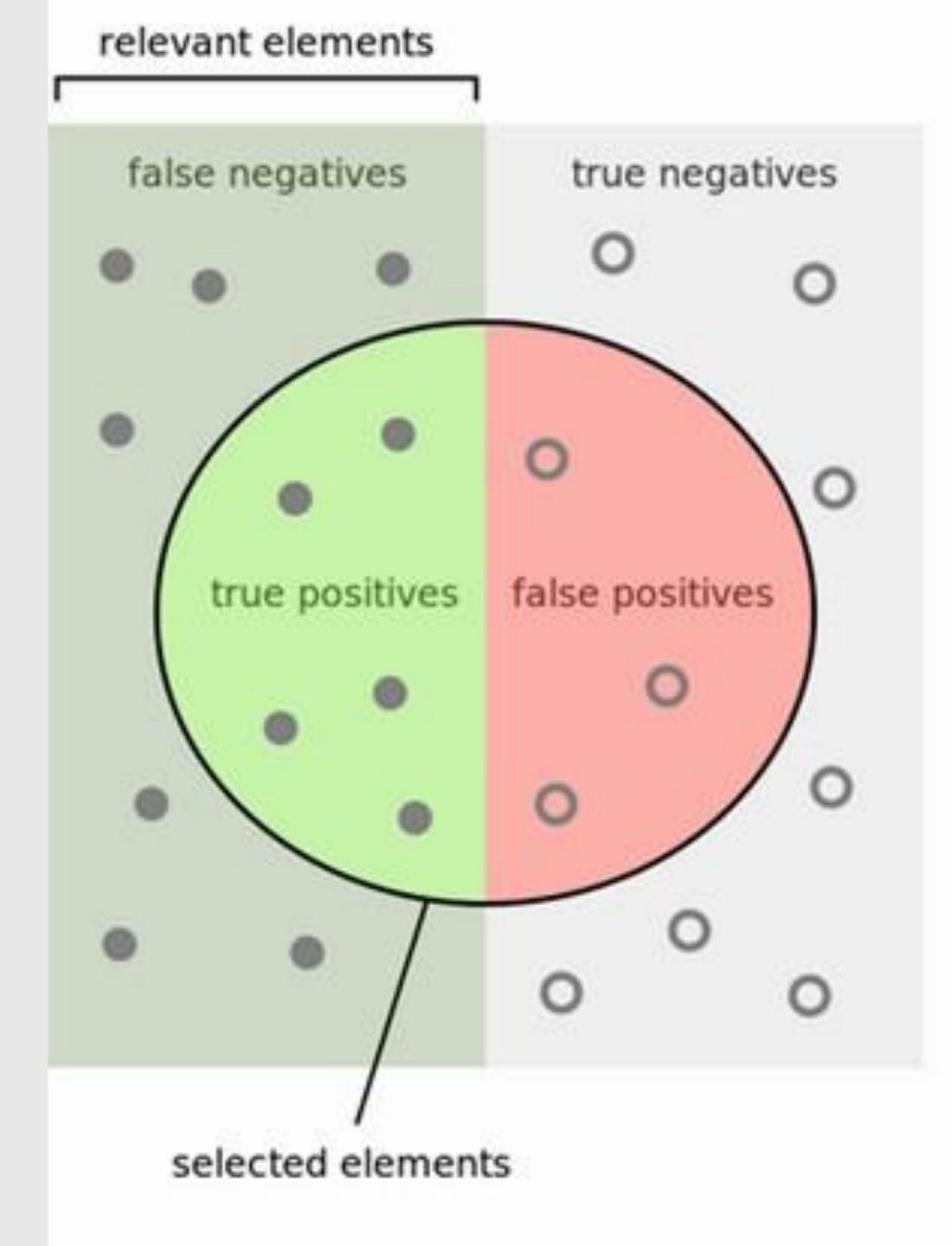
Discussão

Qual métrica utilizar?



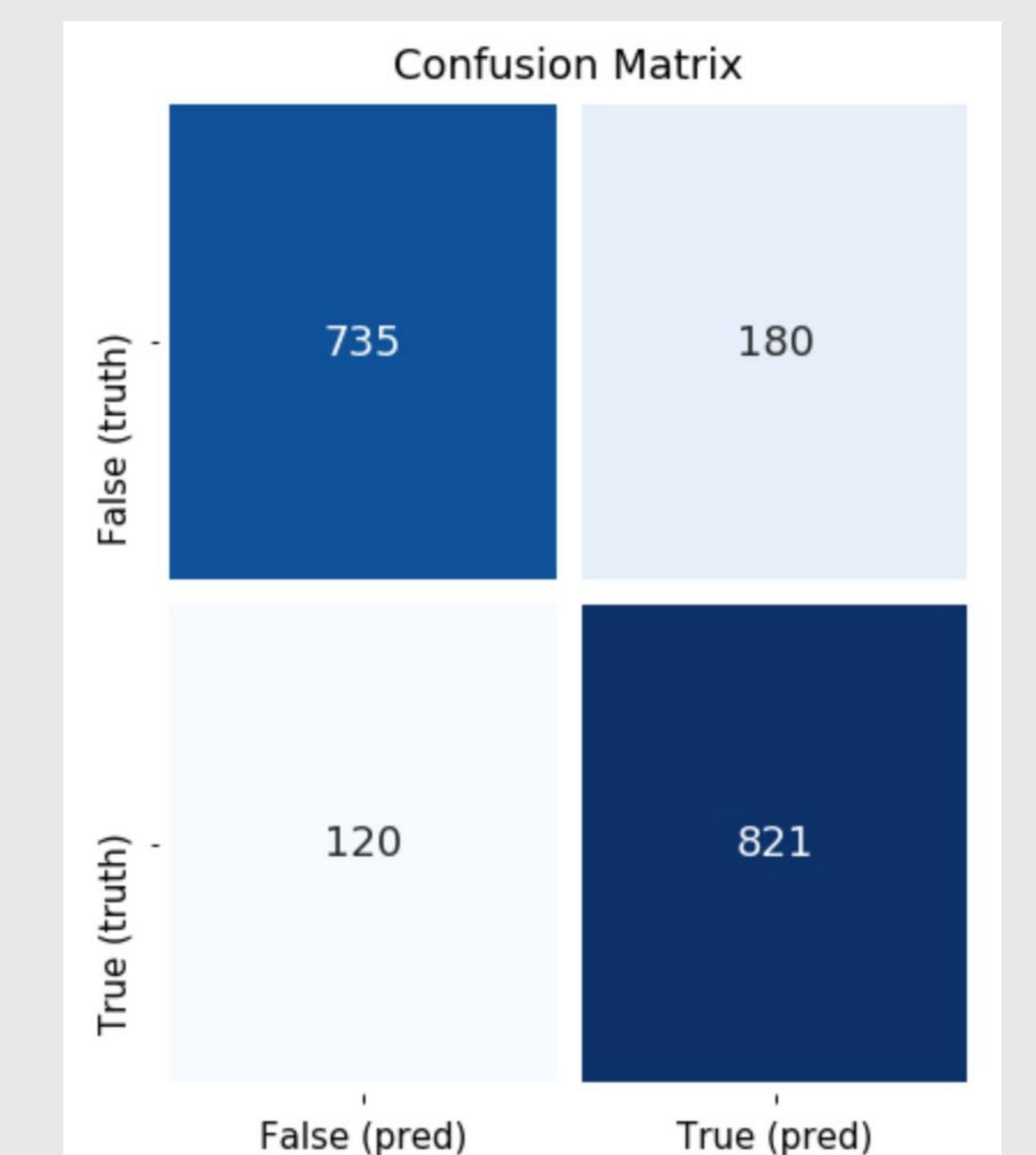
Accuracy Paradox

Predictive models with a given level of accuracy may have greater predictive power than models with higher accuracy.



How many selected items are relevant?

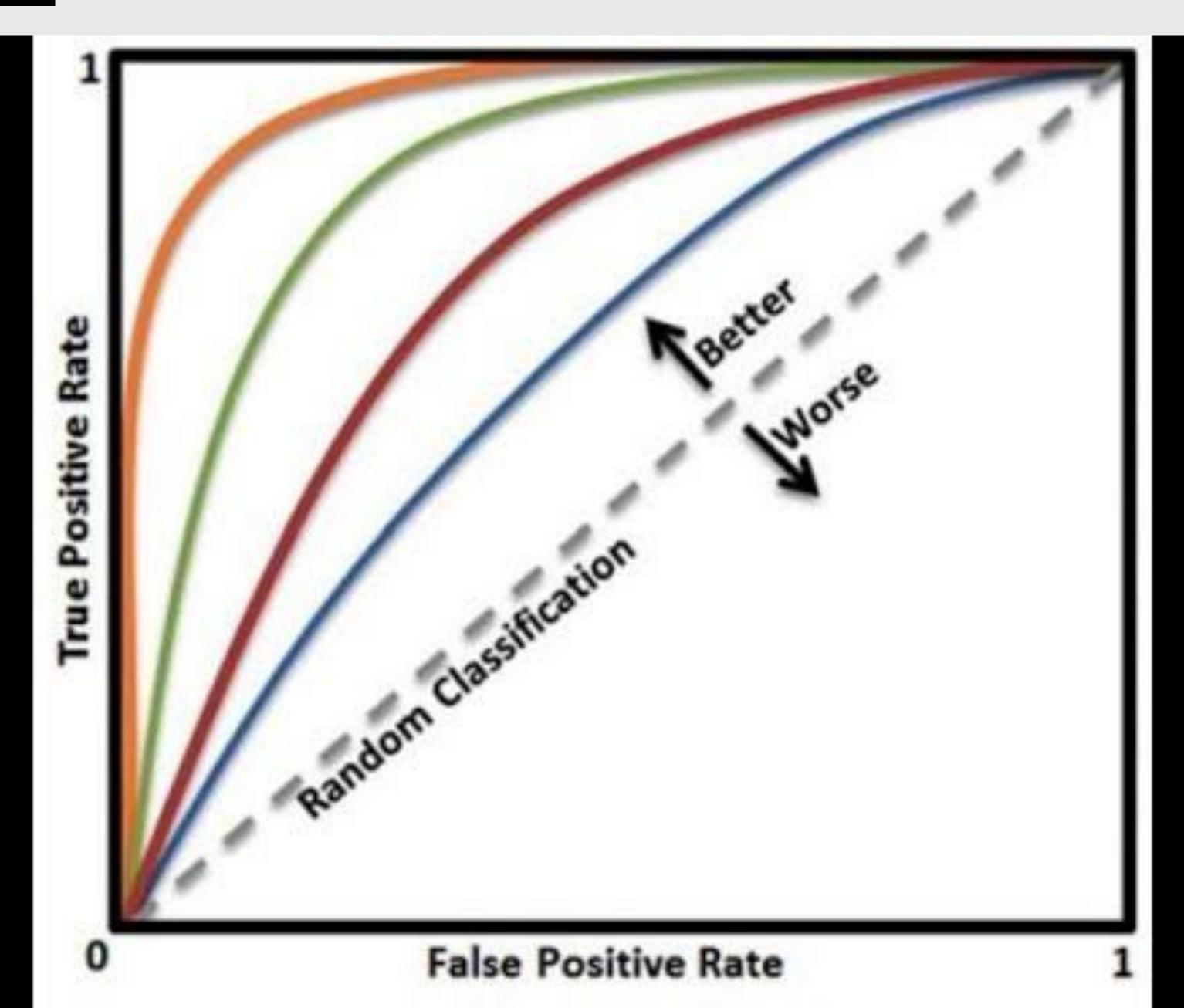
How many relevant items are selected?

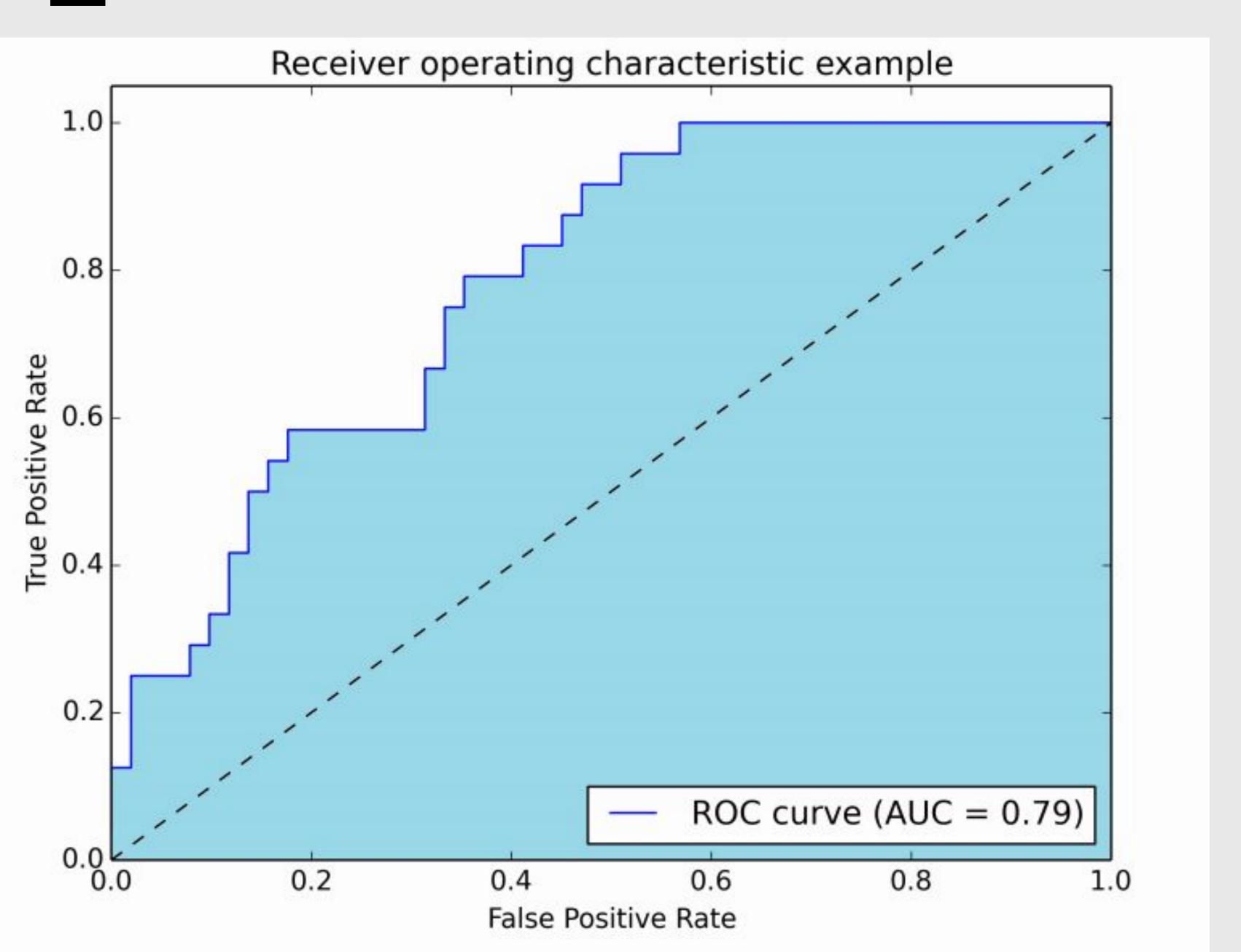


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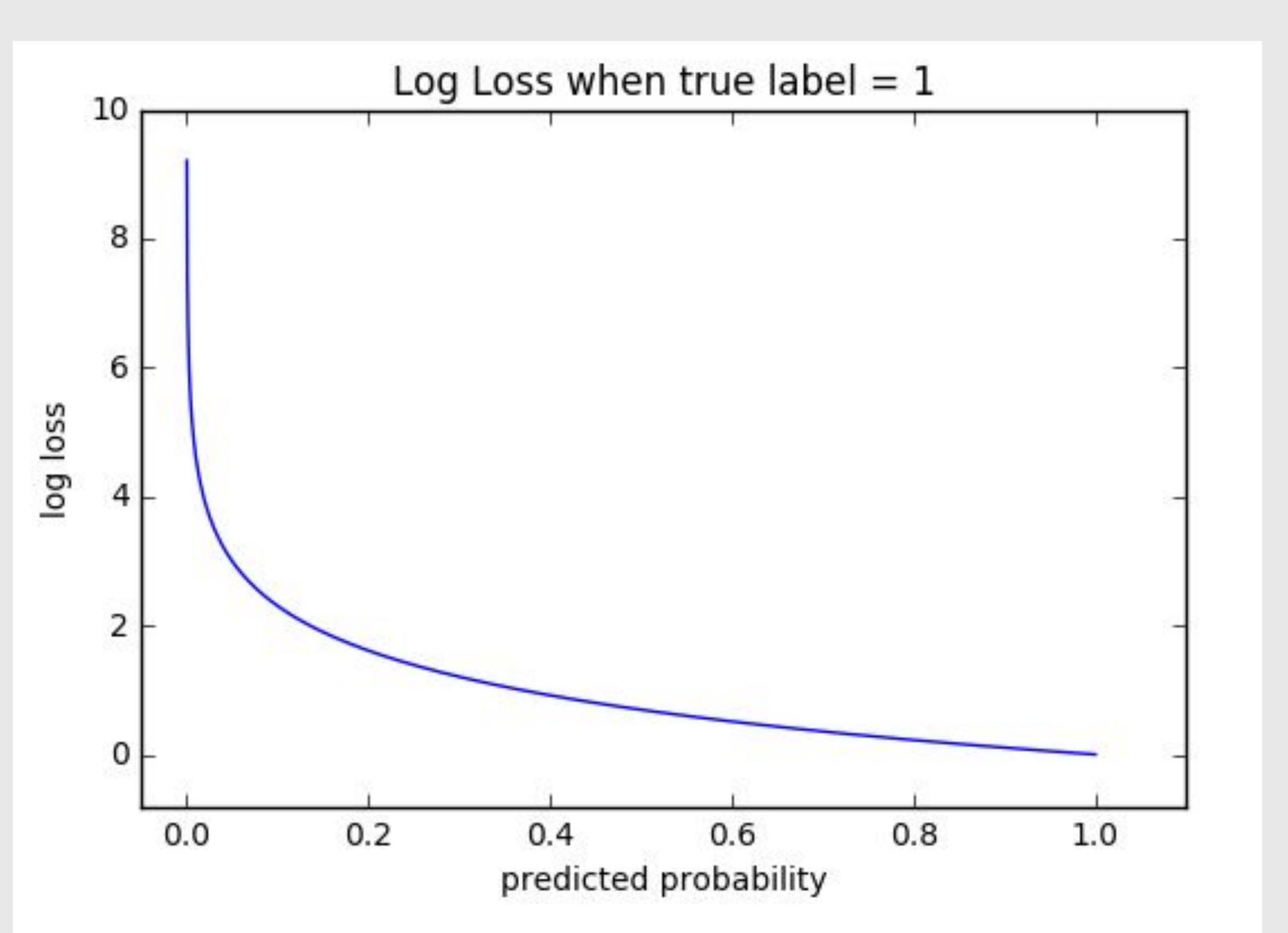
$F_1 = 2 * \frac{precision * recall}{precision + recall}$





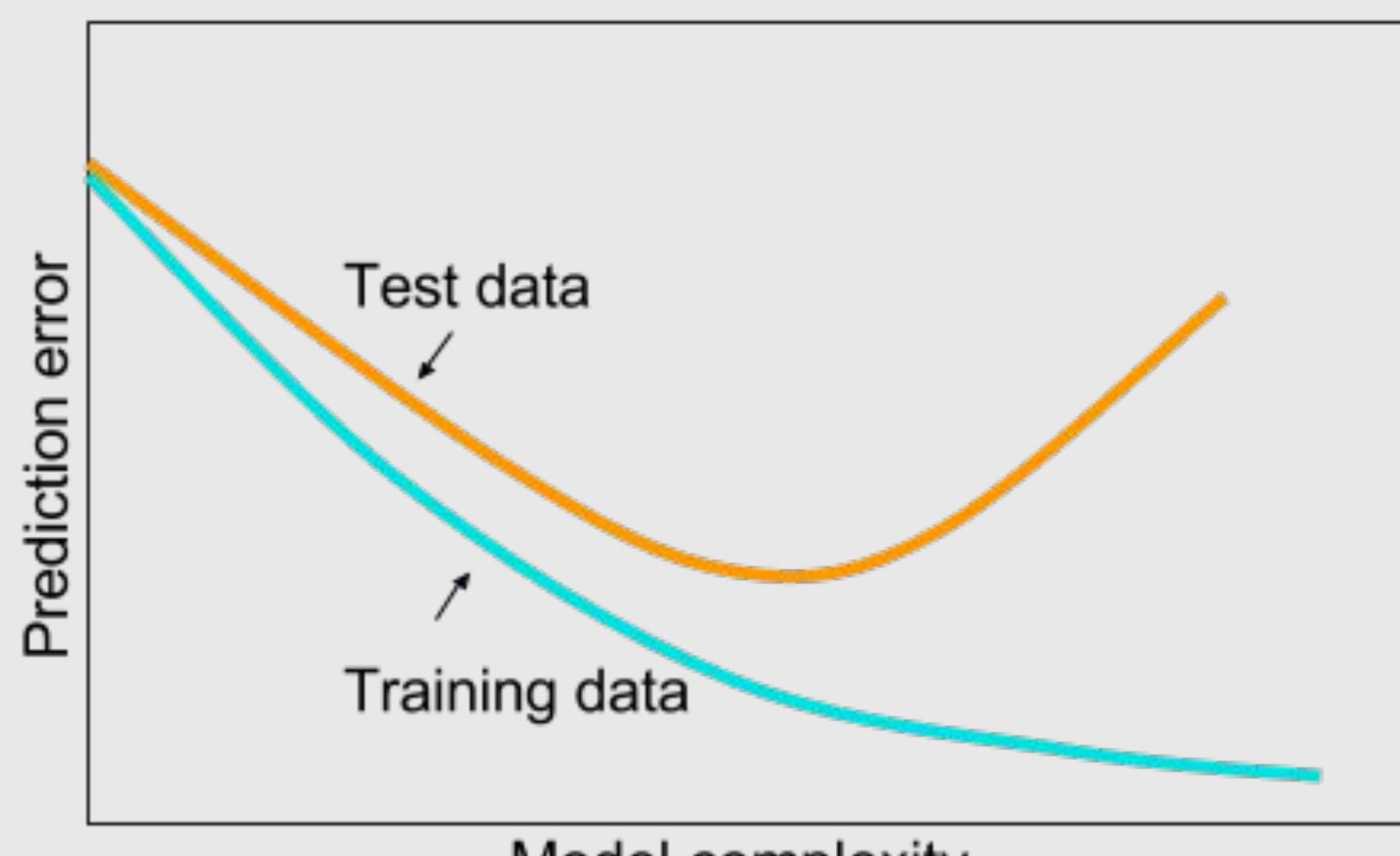


Log Loss



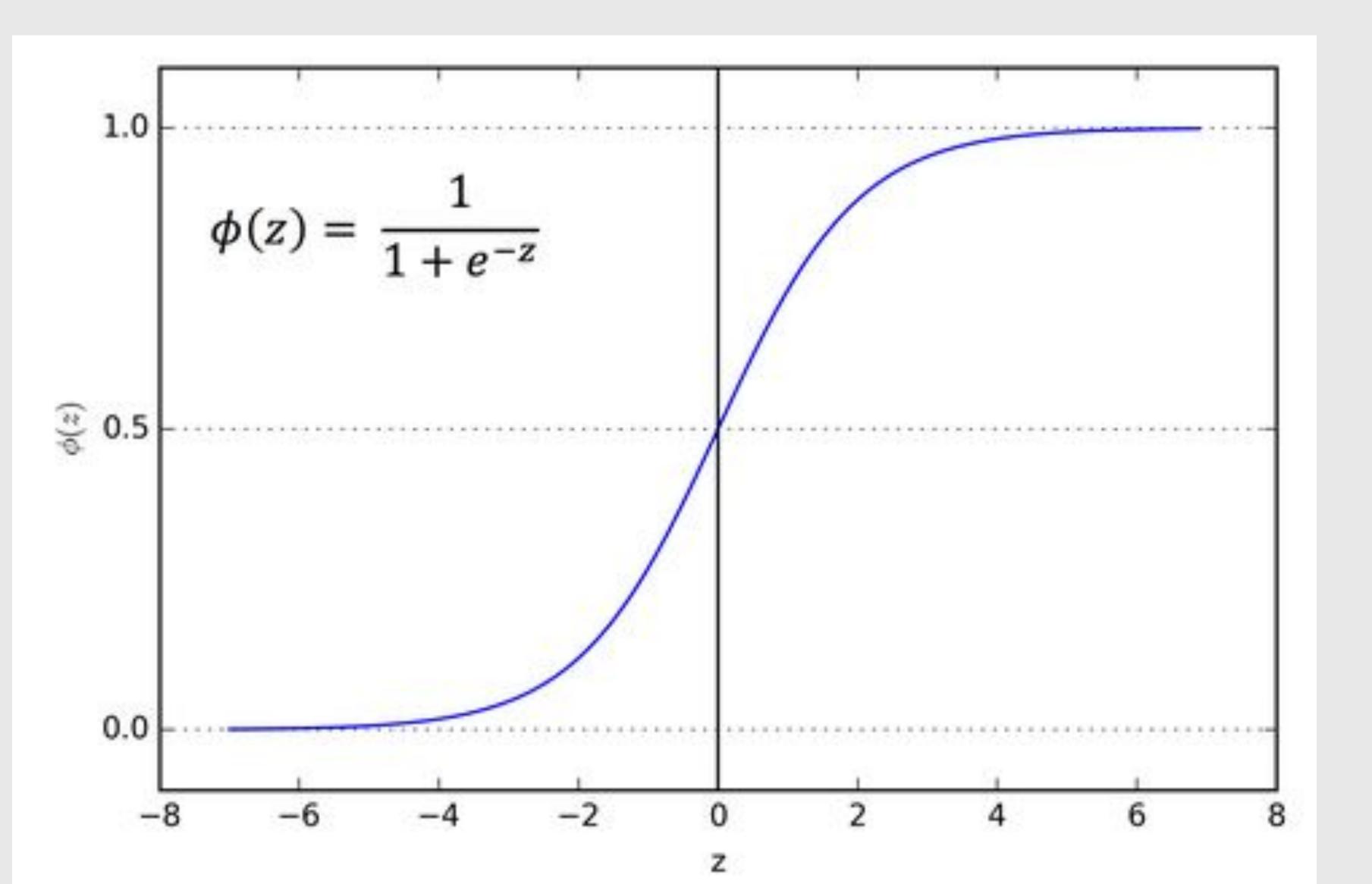


Overfitting

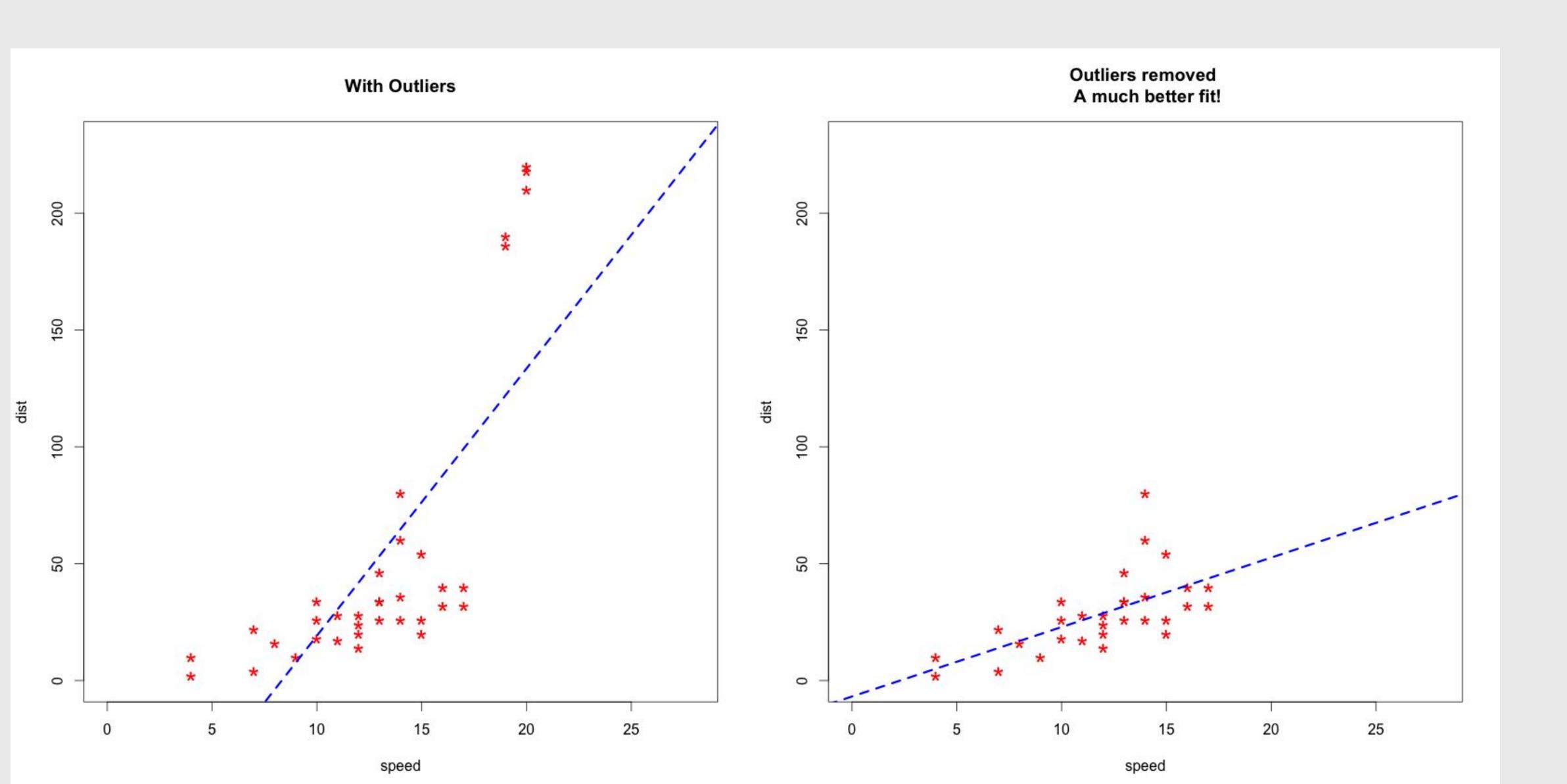


Model complexity

Sigmoid function



Outliers



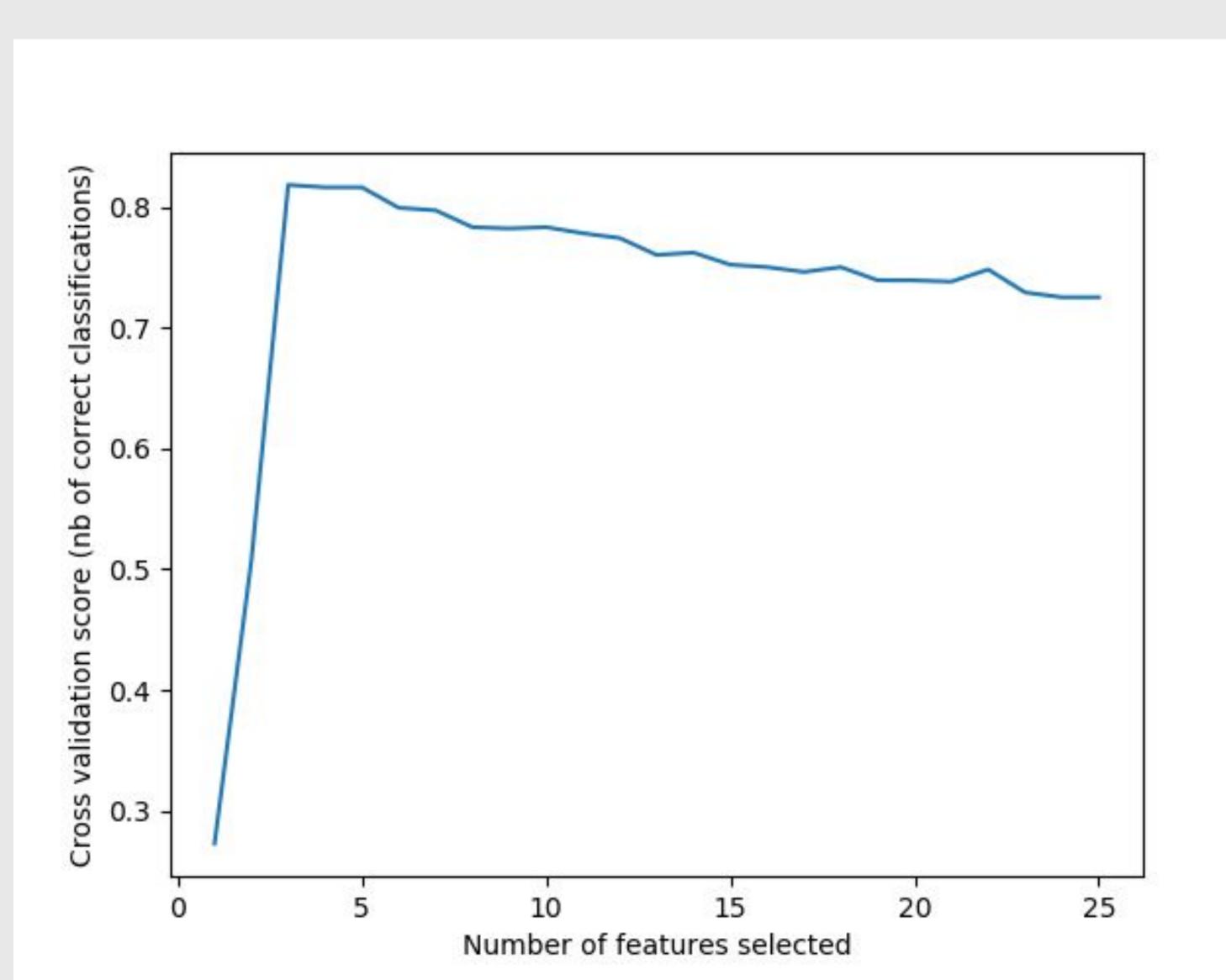


One-hot-encoding

Red	Yellow	Green
1	0	0
1	0	0
0	1	0
0	0	1
	1 1 0 0	1 0 1 0 0 1



Feature elimination





DÚVIDAS?

