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Advanced Computing

ML reading 03

What is an indicator variable, and how can regression be used for classification?

An indicator variable says which class a datapoint belongs to. Regression uses a straight line instead.

What is the equation for the sigmoid function? Calculate the values of sigmoid(0), sigmoid(10), sigmoid(-10). You can use Python.

F(x) = 1/(1 + e^-x)

.5

.999955

4.54

Gradient has a few definitions. Give one that seems appropriate for machine learning.

How steep of a downhill or uphill the data gives us.