

機器學習

Logistic Regression

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回歸 Regressions

Linear Regression:

- **Simple:**

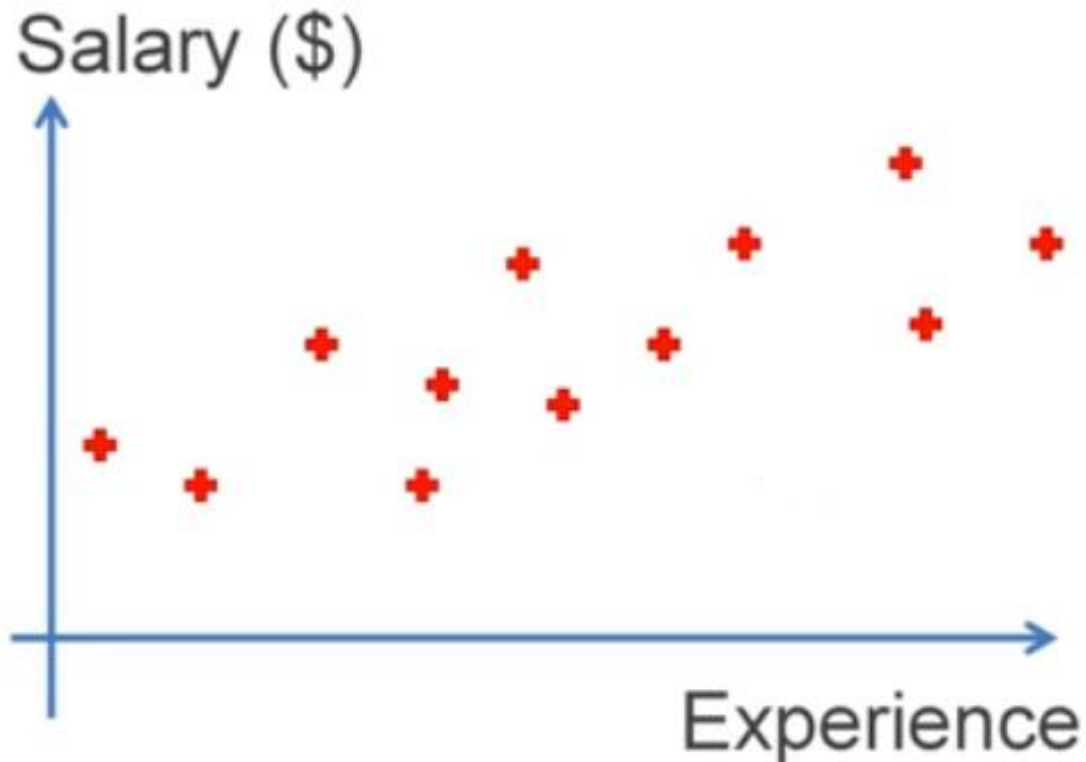
$$y = b_0 + b_1 * x$$

- **Multiple:**

$$y = b_0 + b_1 * x_1 + \dots + b_n * x_n$$

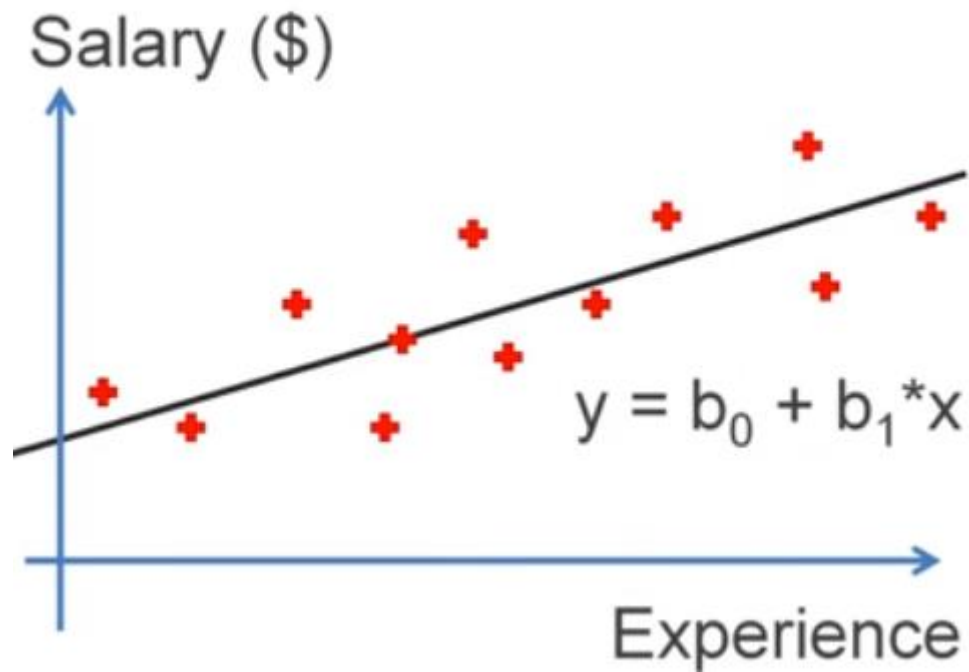
回歸 Regressions

We know this:



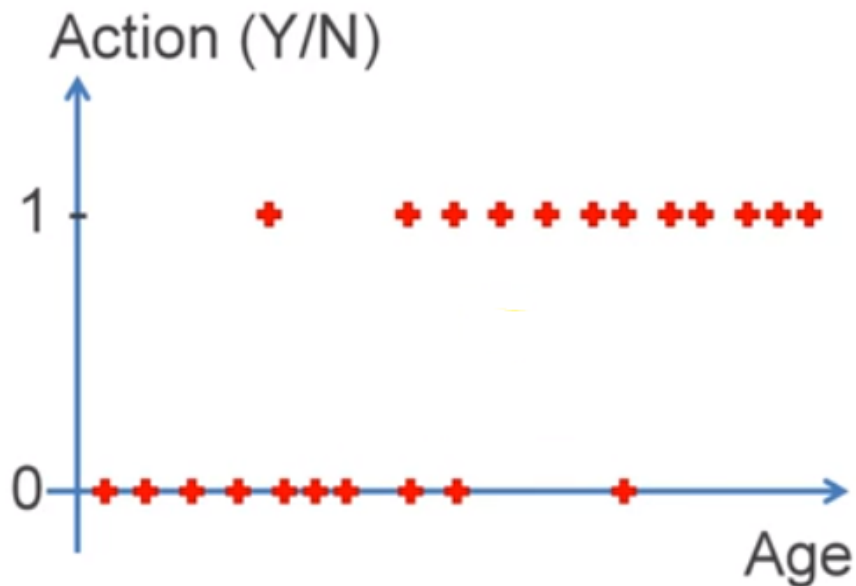
回歸 Regressions

We know this:

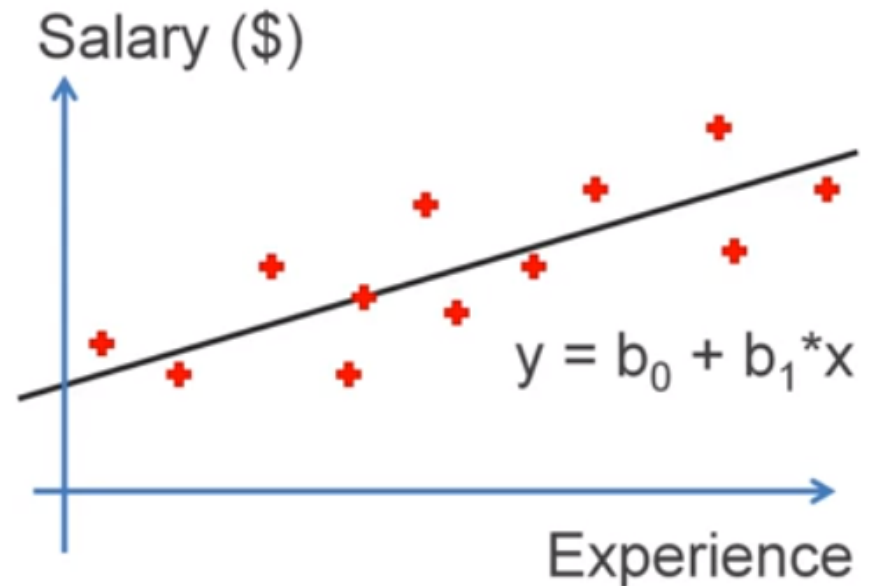


Logistic Regression

This is new:

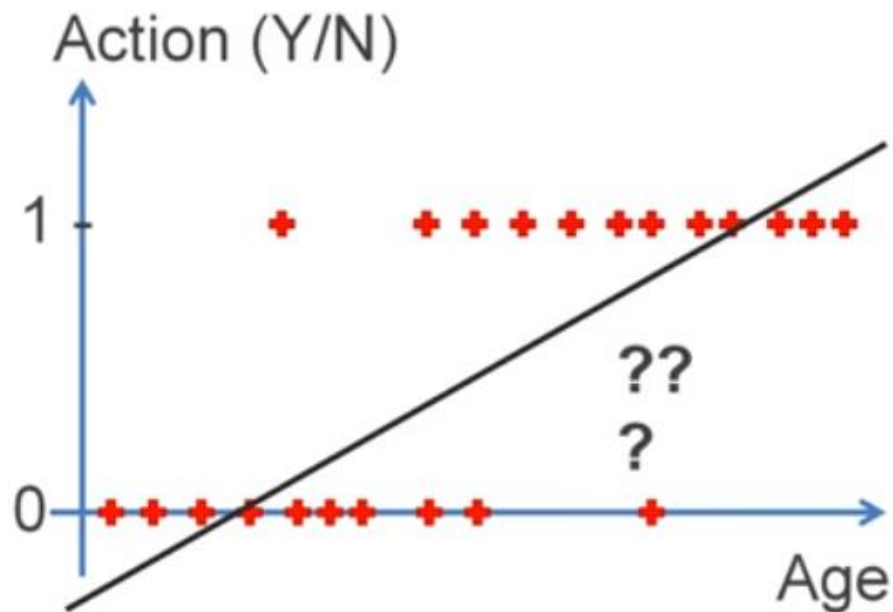


We know this:

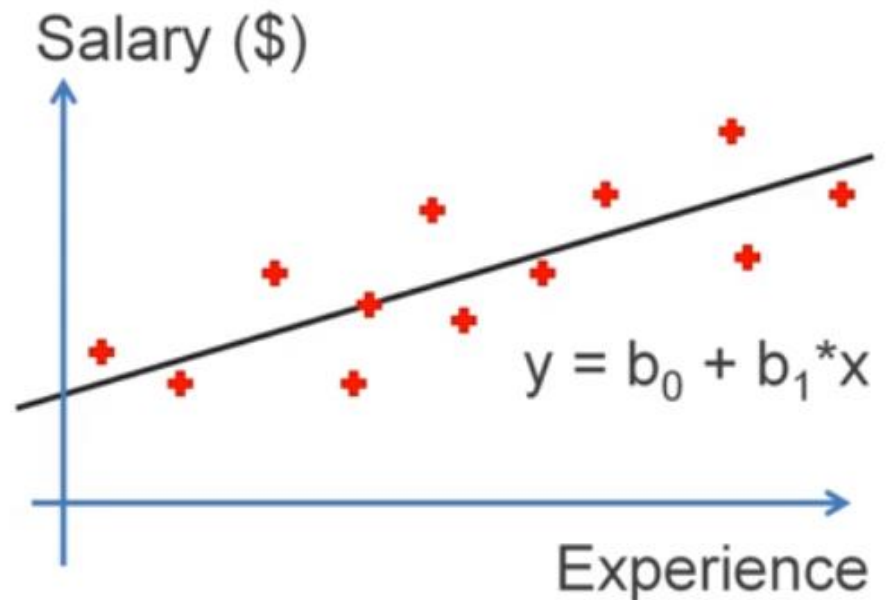


Logistic Regression

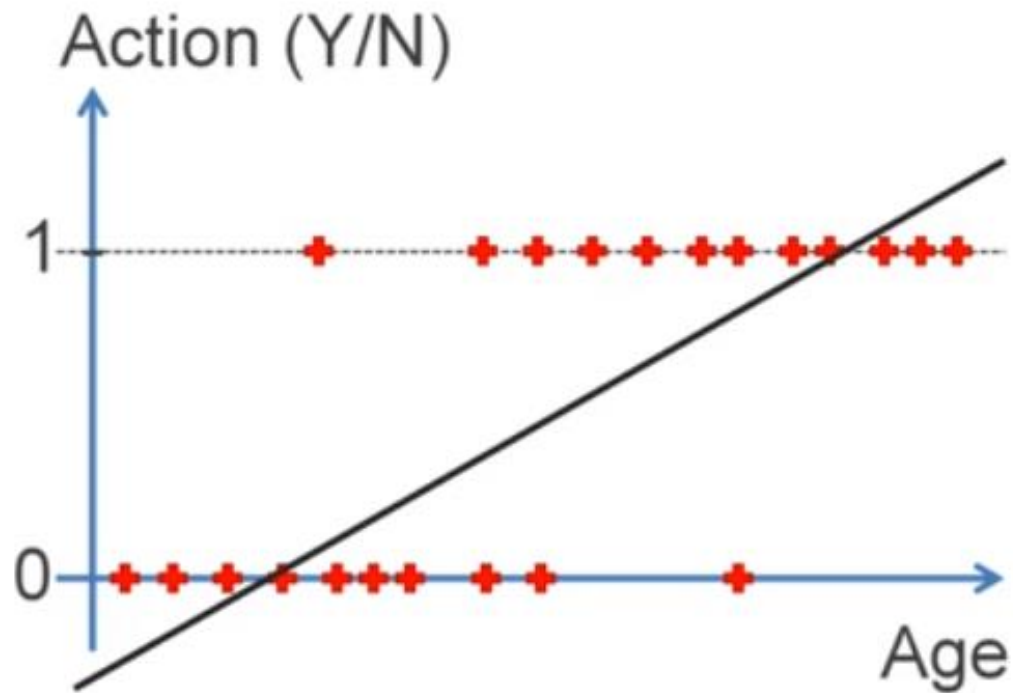
This is new:



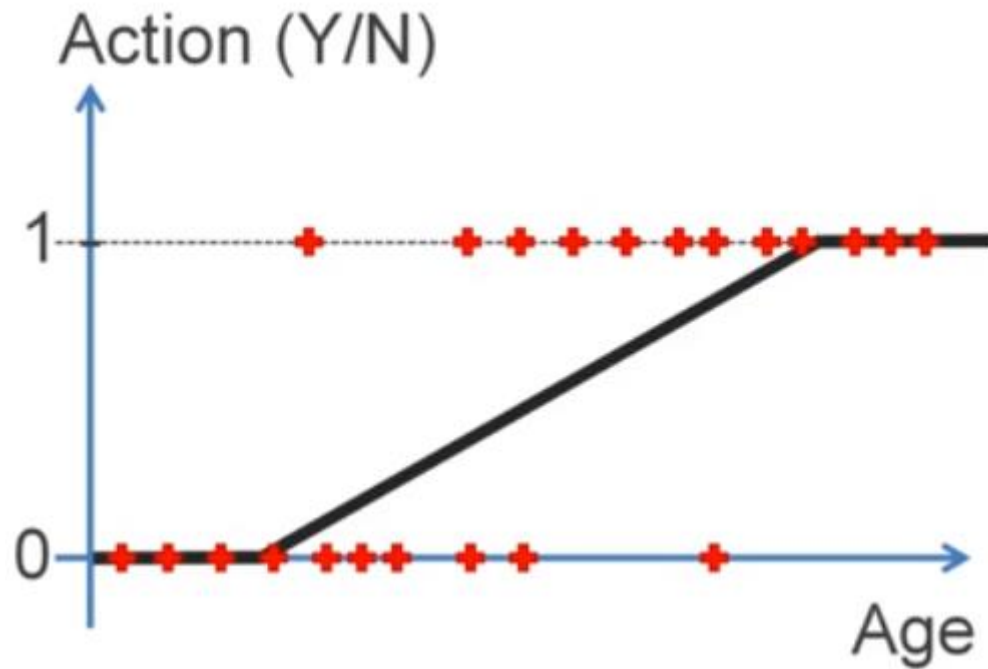
We know this:



Logistic Regression

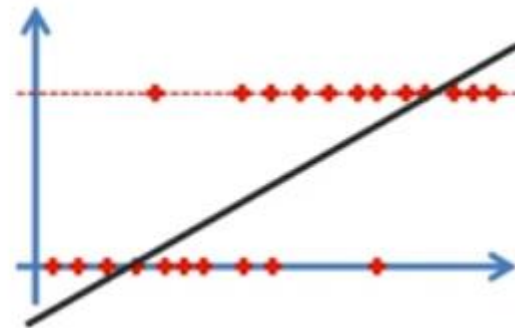


Logistic Regression



Logistic Regression

$$y = b_0 + b_1 * x$$



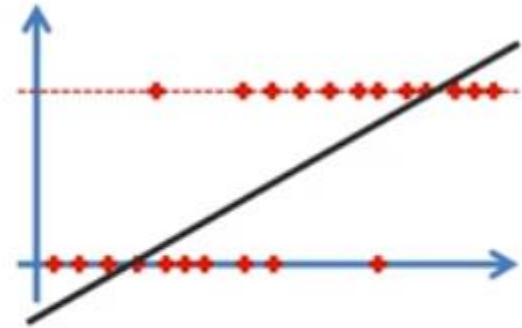
Logistic Regression

$$y = b_0 + b_1 * x$$

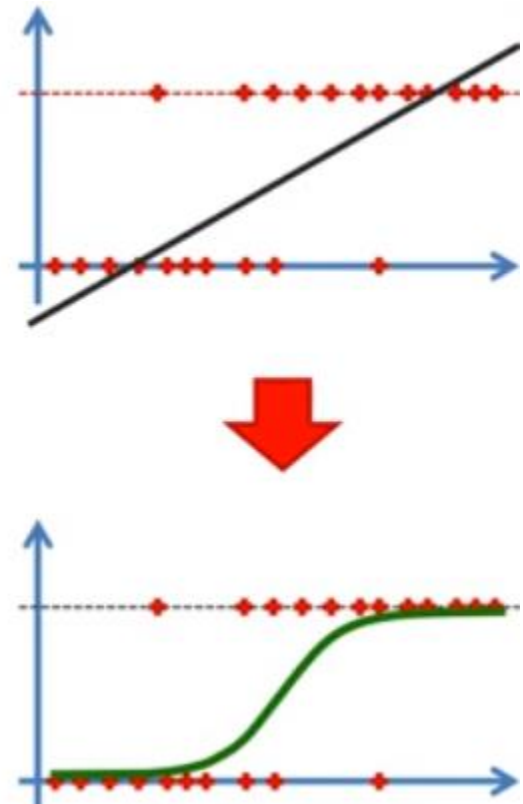
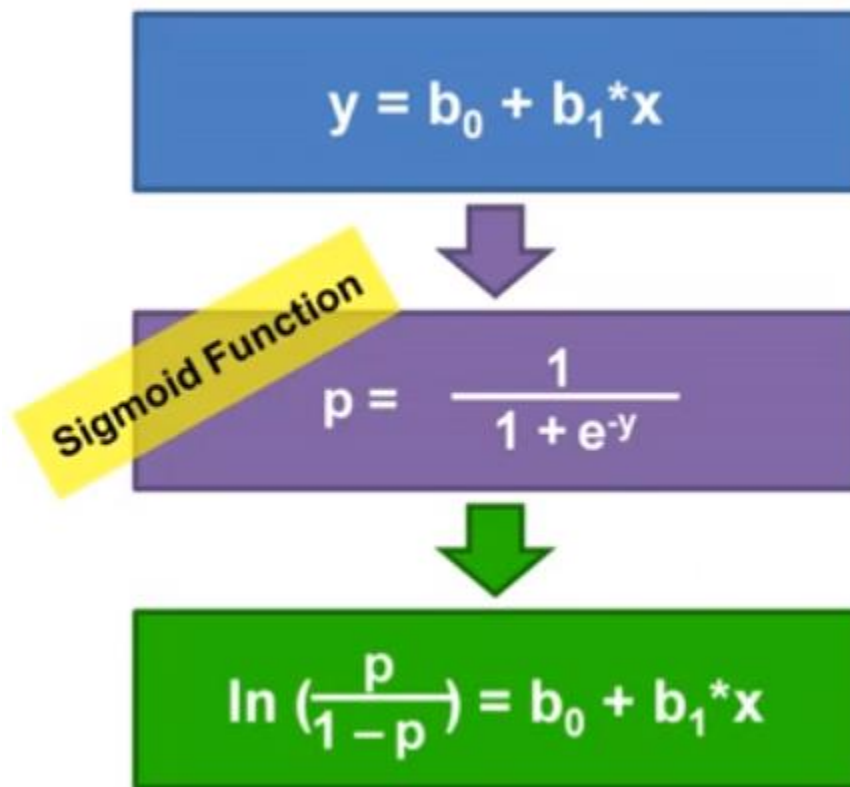


Sigmoid Function

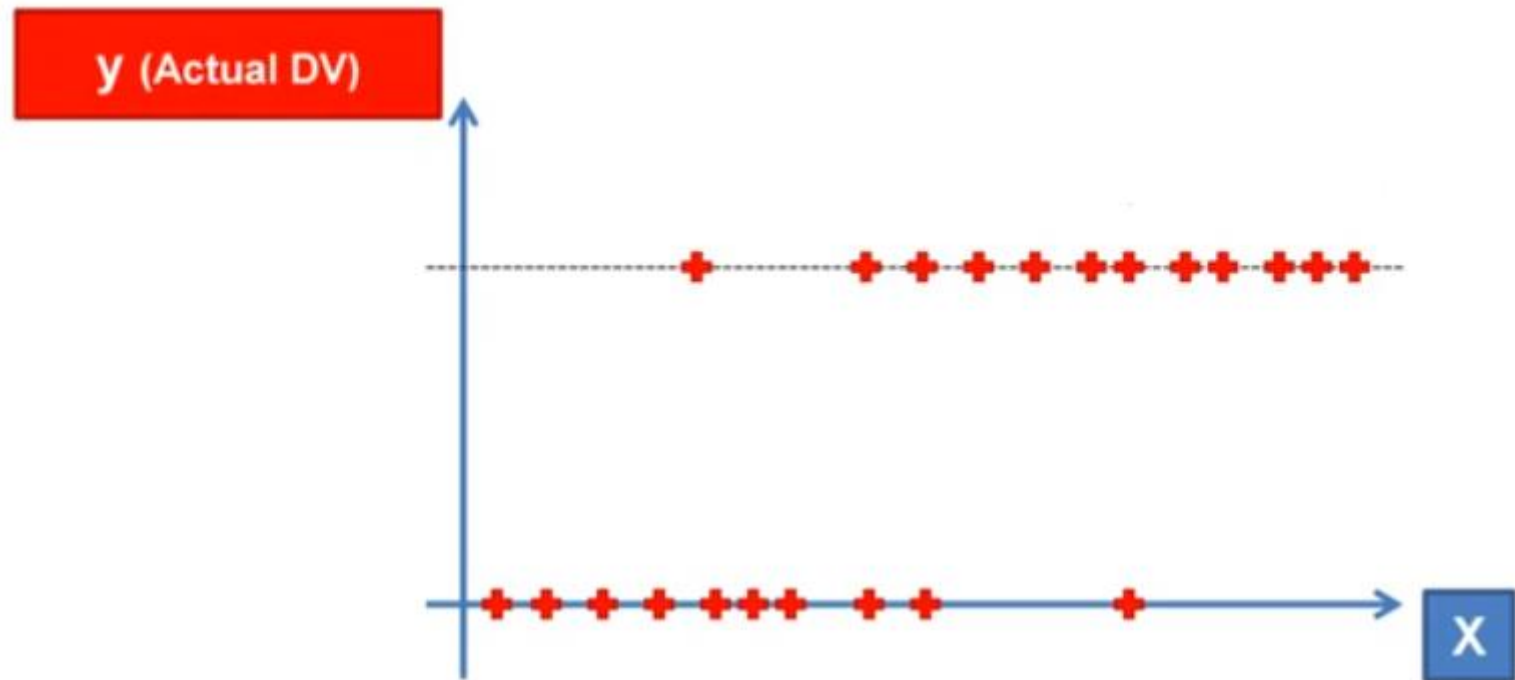
$$p = \frac{1}{1 + e^{-y}}$$



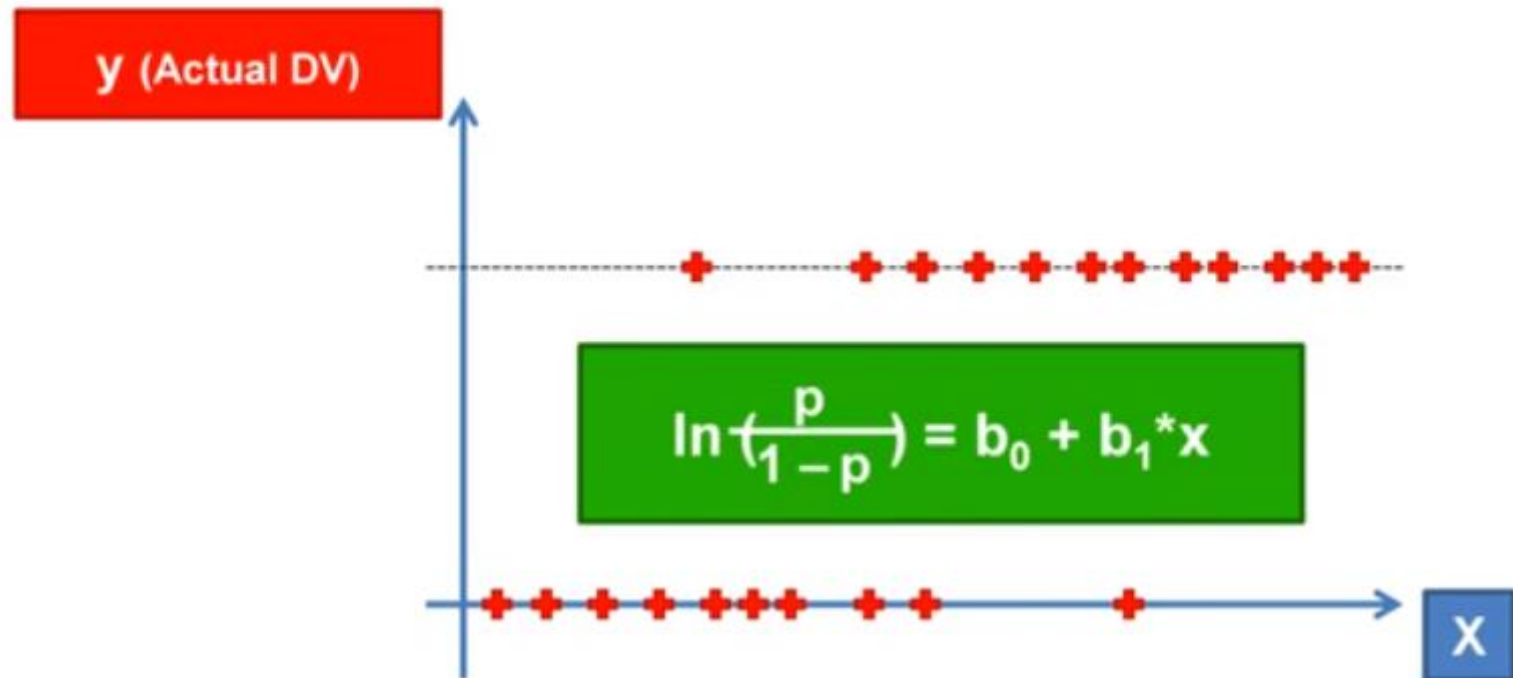
Logistic Regression



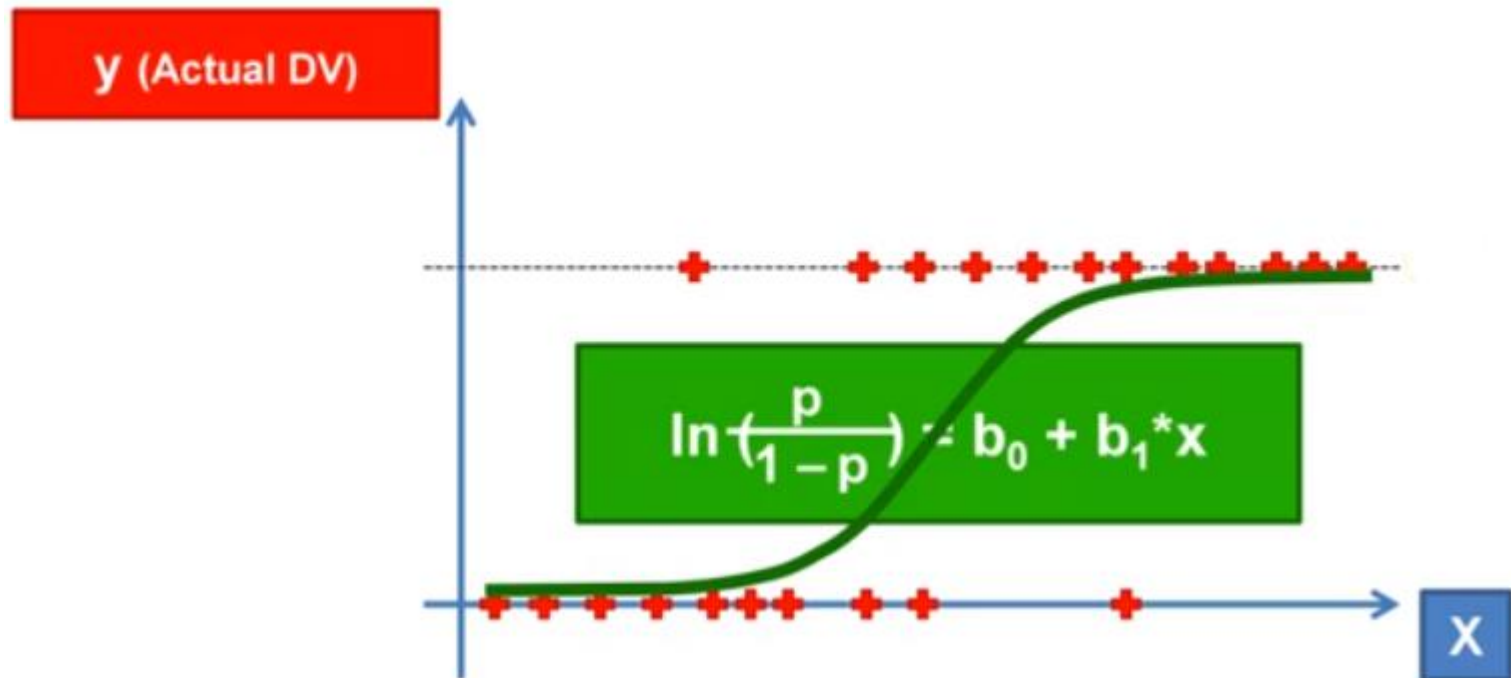
Logistic Regression



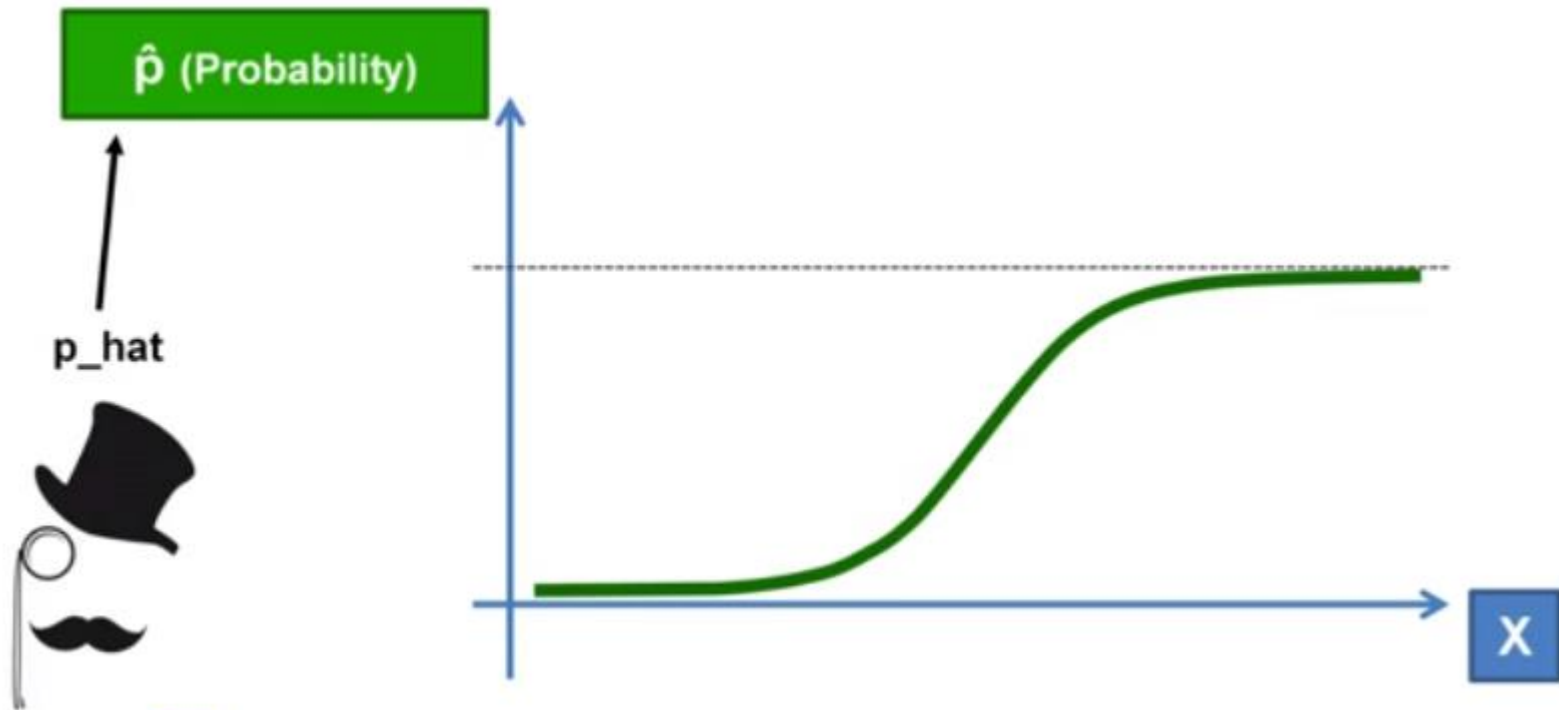
Logistic Regression



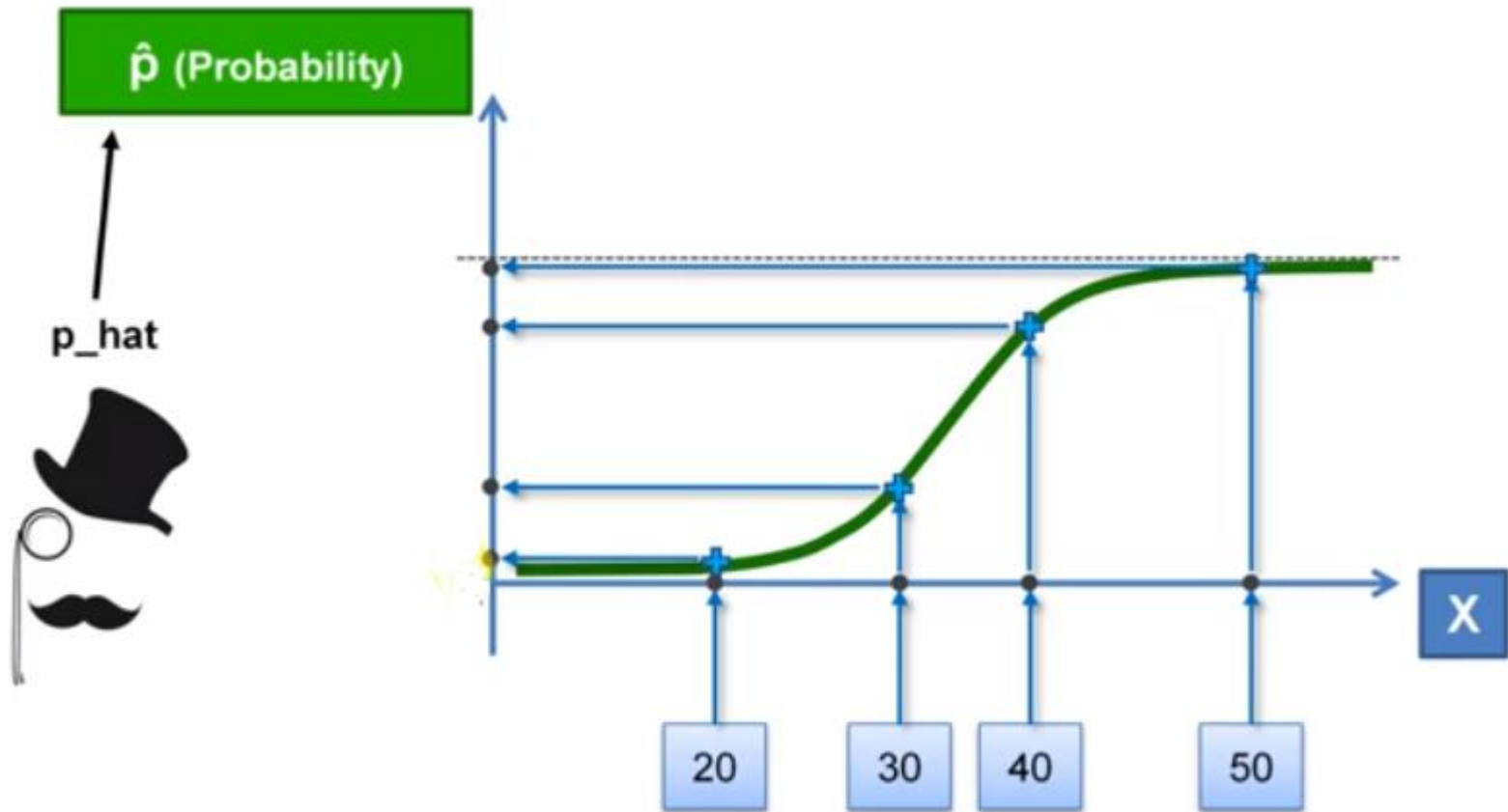
Logistic Regression



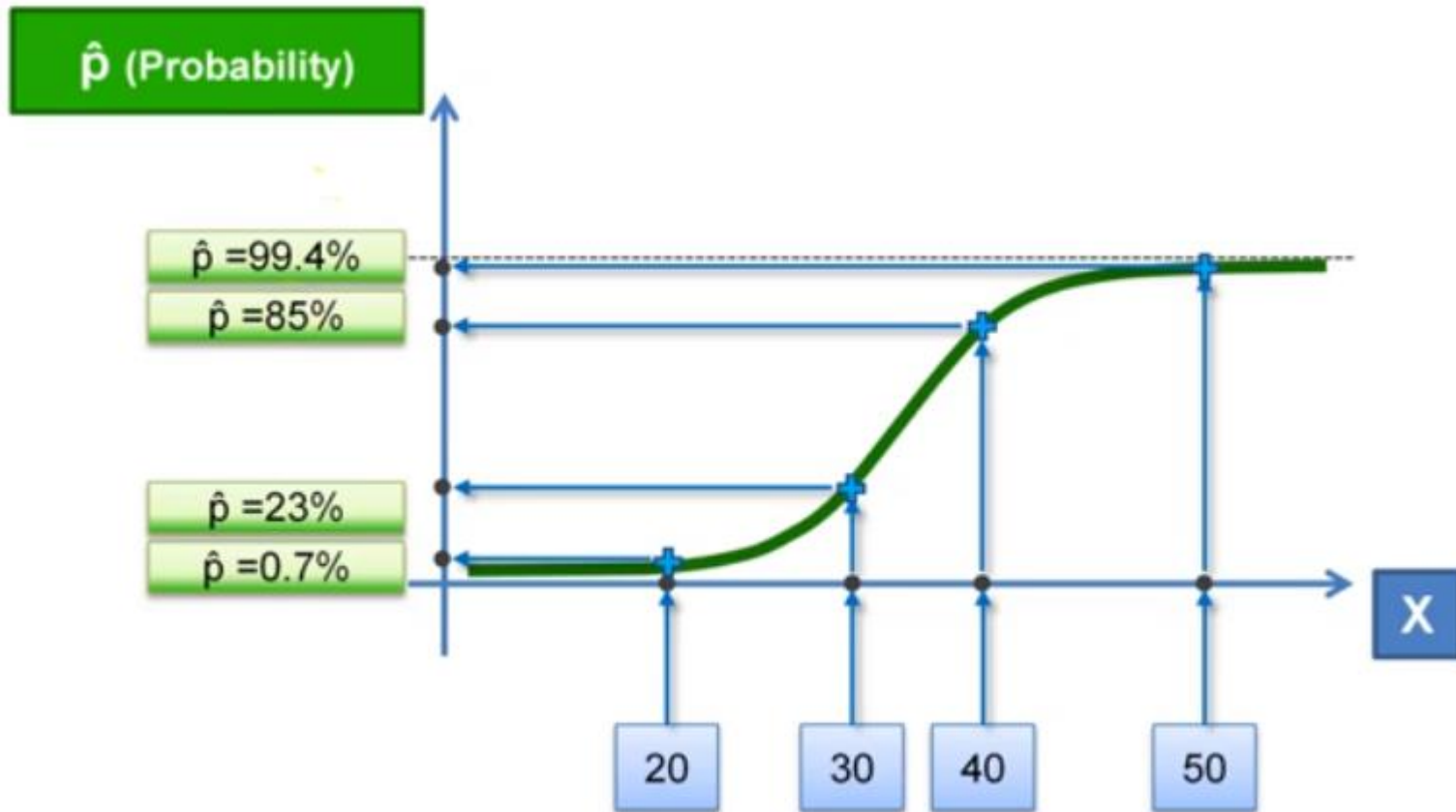
Logistic Regression



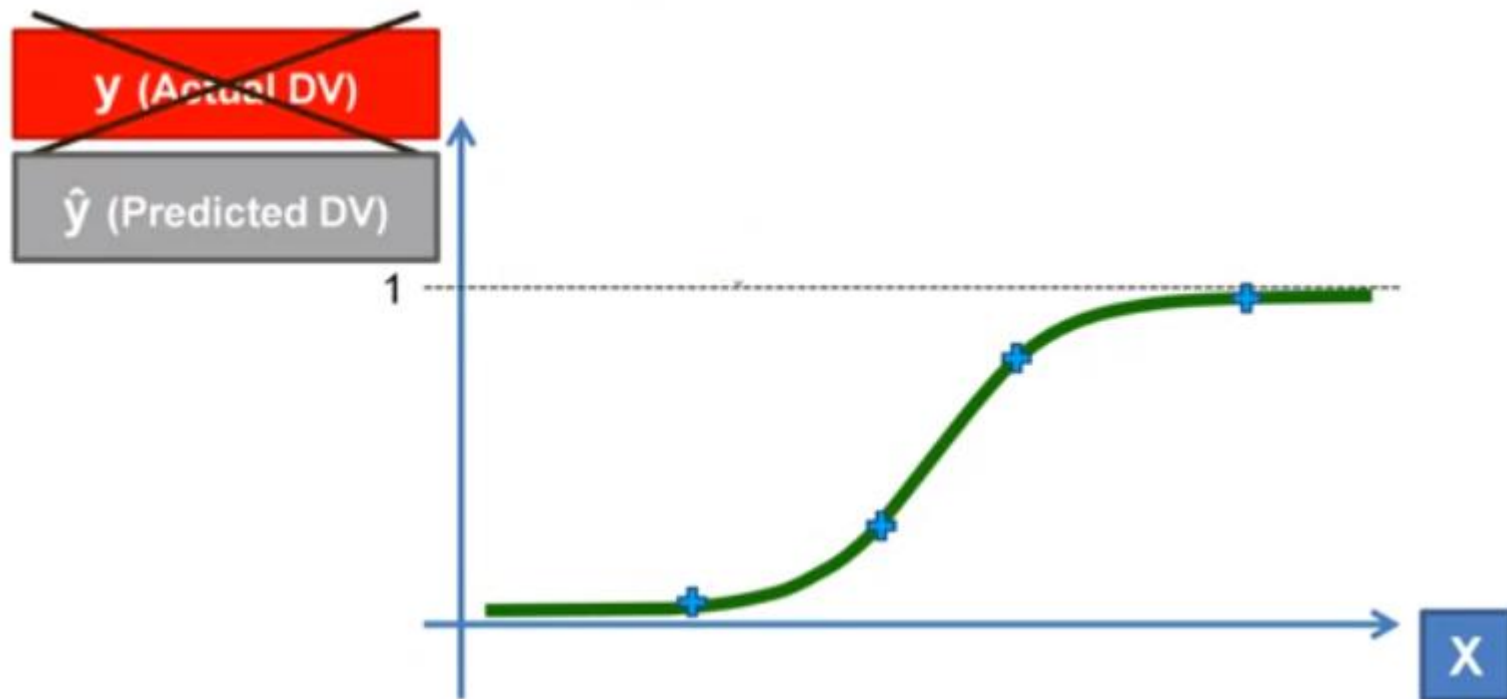
Logistic Regression



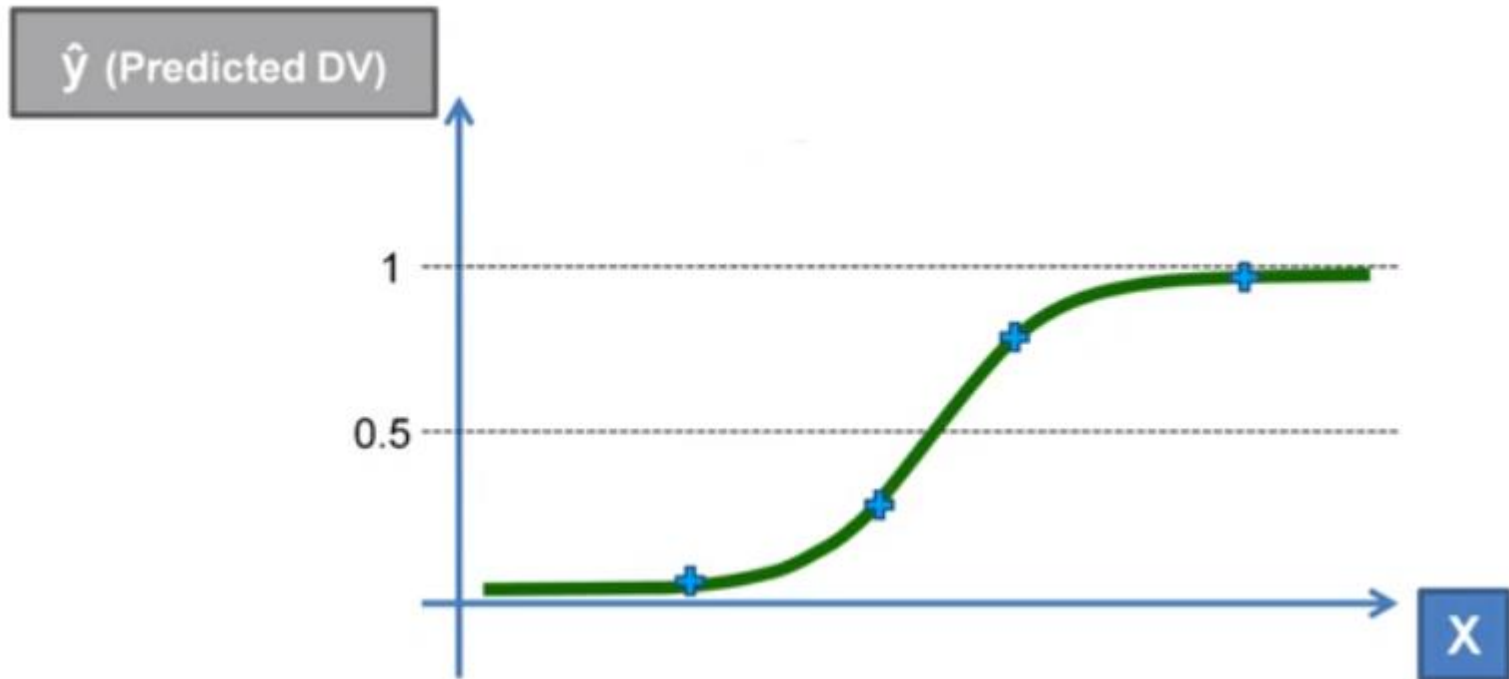
Logistic Regression



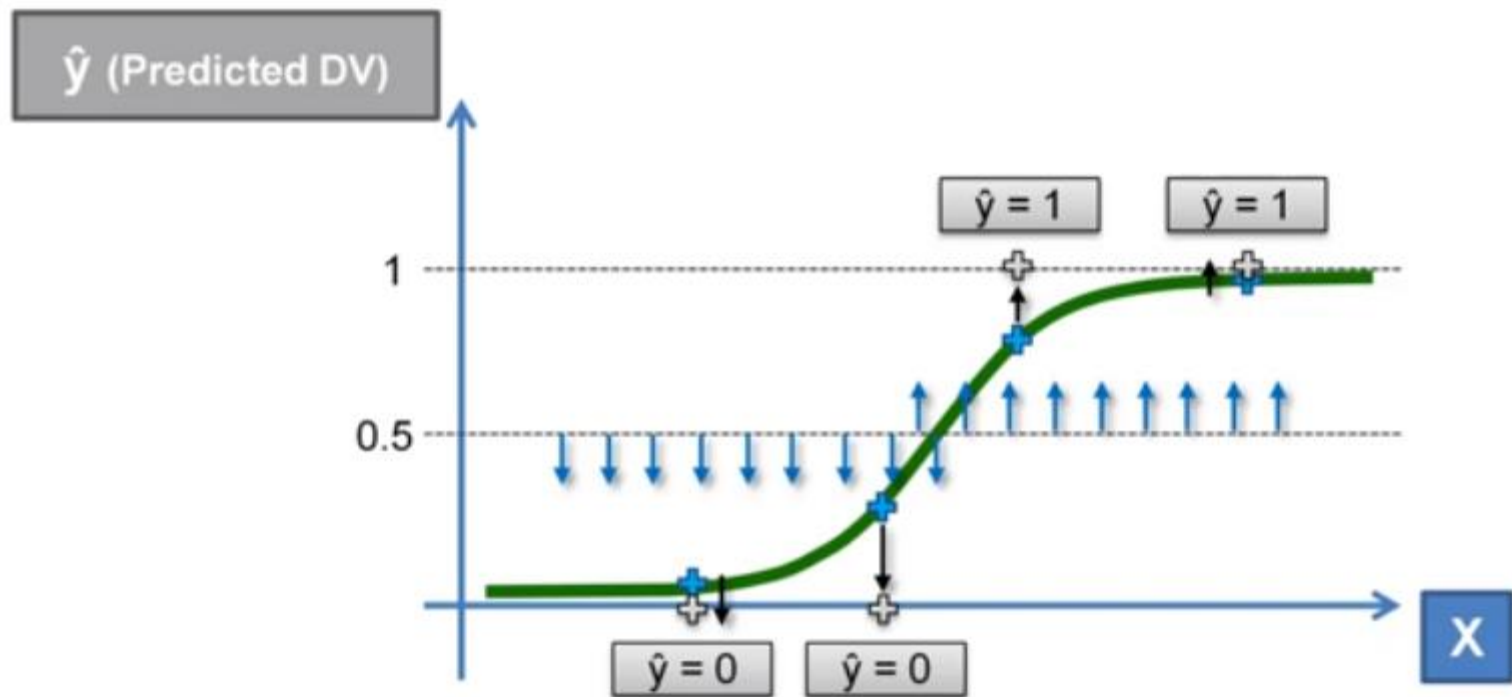
Logistic Regression



Logistic Regression



Logistic Regression



THE END

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