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Logistic Regression

* Logistic regression approach operates on sigmoid curve rather than a bestfit line, we get a value $\in [0,1]$ (Binary classification) and then classify into +ve or -ve. by comparing with median

Let data points be (x_i, y_i) $\forall$ $i \in \{0, n\}$

Finding best fit line through previously mentioned methods.

$$v = \frac{1}{1+e^{-(mx+c)}} * \frac{1}{1+e^{-(b_1 m + b_0)}}$$

Classification will be decided on the obtained value v

* If $v < 0.5$ → then "no"
* Else $(v > 0.5)$ → then "yes".

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