Logitic Regression

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Lagirlic Regression is a supervised ML algorithm used for clanification problems. It were the sigmoid function to must give probabilitic values of the target within the range

Nothernatically, logistic regression is represented as -

$$\hat{y} = \sigma(0^{T}, x) = 1$$
 $1 + e^{-0^{T}, x}$

where,
$$O^T = [O_0, O_1, O_2, \dots O_n]$$

$$\times = [\times_1, \times_2, \dots, \times_n]$$

- Jyper of Logistic Regression:
 - 1. Binomial There thre 2 parible values for Eargel
 - 2. Multinomial 1, 1, 3 or more partible unardered values for target.
- 3. Ordinal There are 3 or more partible ardered walker for target.

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2.	The target should be categorical. The features should not nave multi-collinearity.
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