**LOGISTICS REGRESSION IN PYTHON Tutorial**

**Logistic Regression**, also known as **Logit Regression** or **Logit** **Model**, is a mathematical model used in statistics to estimate or guess the probability of an event occurring having been provided with some previous data. Logistic Regression works with binary data, where either the event happens (1) or the event does not happen (0).So given some feature **x** it tries to find out whether some event **y** happens or not.

**Audience**

Logistics regression is a topic under our most famous technologies boosting now-a-days i.e. Artificial Intelligence , Machine Learning and Deep Learning.

Who developed Logistics Regression?

The logistic function was discovered in 1920 by Pearl and Reed in a study of the population growth of the United States.

**Prerequisites**

* Probability
* Matrix Calculations
* Derivatives
* Also a brief knowledge of programming in Python with numpy

Here are a few assumptions regarding Logistic Regression :

* Binary logistic regression requires the dependent variable to be binary.
* For a binary regression, the factor level 1 of the dependent variable should represent the desired outcome.
* Only the meaningful variables should be included.
* The independent variables should be independent of each other. That is, the model should have little or no multicollinearity.
* The independent variables are linearly related to the log odds.
* Logistic regression requires quite large sample sizes.