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| Is Normal Distribution a Probability Distribution? |
| [Website] |

In this article, we will see whether the probability distrubution is same as normal distribution. Quick explanation of probality distribution and Normal Distribution and Justification of is probability distrubution is same as normal disturbution.

Probability Distribution:

A probability distribution are generally divided into two classes

* Discrete Probability distribution
* Continuous Probability distribution

Discrete Probability distribution: the set of possible outcomes is discrete (coin toss or a roll of dice)

Continuous Probability Distribution: the set of possible outcomes can take on values in a continuous range.

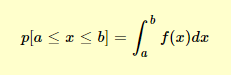
Normal Distribution:

It is also known as the Gaussian distribution or bell curve. The Normal distribution is a symmetric distribution where most of the observation cluster around the central peak and values further away from the mean equally in both directions.Exterme values in both tails of the distribution.

Example: heights, blood pressure, IQ scores

Justification:

The mathematical definition of a continuous probability function f(x) that satisfies the following property.



The probability distribution function tells about the probability of an event that will occur in a given interval