

Aspect	Discrete Distribution	Continuous Distribution
Definition	Probability distribution for discrete random variables that take on a countable number of distinct values.	Probability distribution for continuous random variables that can take on an infinite number of values within a range.
Probability Calculation	Directly computed from the PMF.	Computed by integrating the PDF over an interval.
Probability Function	Probability Mass Function (PMF)	Probability Density Function (PDF)
Examples	Binomial distribution, Poisson distribution	Normal distribution, Exponential distribution, Uniform distribution.
Applications	Used for countable events such as number of successes, occurrences of events.	Used for measurements and quantities that vary continuously, such as physical attributes or time.

Report different between discrete and continuous distribution

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