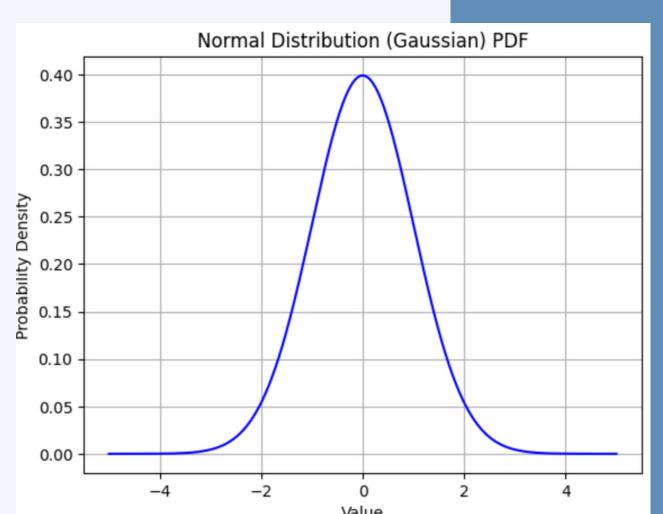
TOP 10 DATA DISTRIBUTION USED IN MACHINE LEARNING



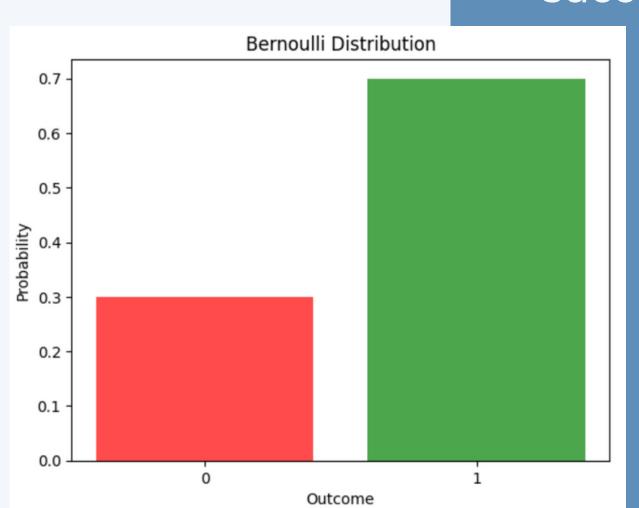
Normal Distribution (Gaussian Distribution)

A symmetric bell-shaped distribution widely used to model continuous data, making it a fundamental assumption in many statistical and machine learning models.



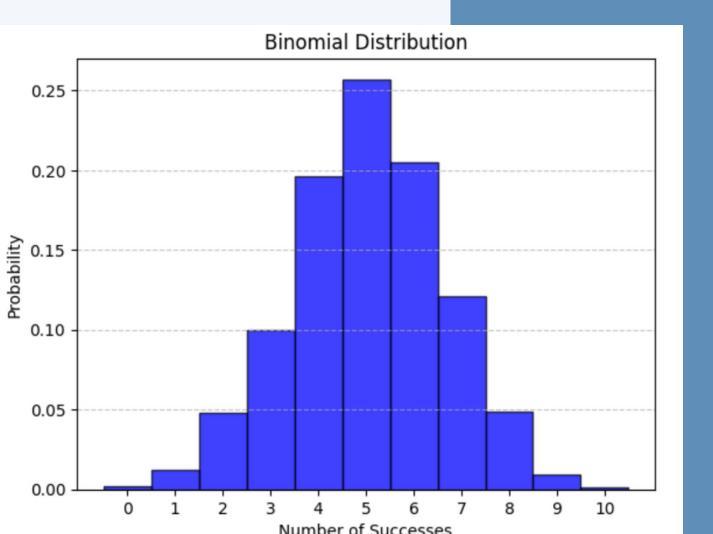
Bernoulli Distribution:

A discrete distribution with two possible outcomes (usually 0 and 1), used to model binary events or trials with a fixed probability of success.



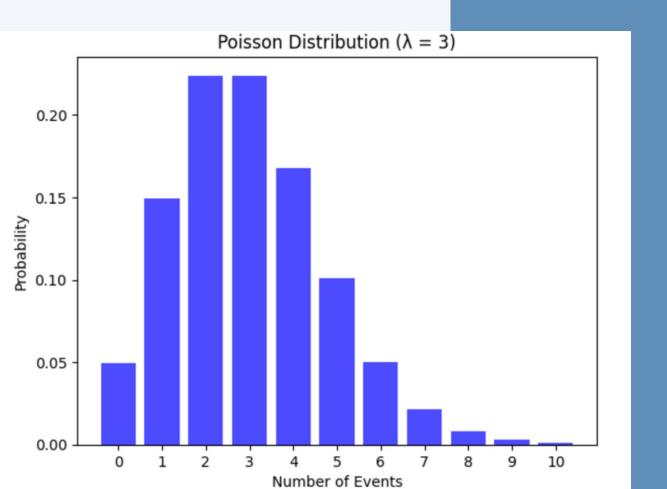
Binomial Distribution

A discrete distribution that describes the number of successes in a fixed number of independent Bernoulli trials, often used in scenarios with binary outcomes.



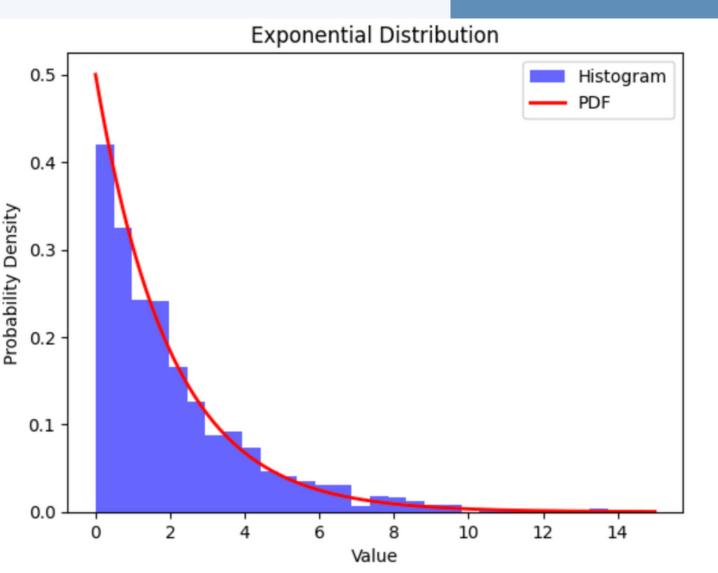
Poisson Distribution:

The Poisson distribution models the number of events occurring in a fixed interval of time or space. It's often used for count data, such as the number of phone calls in a call center during a fixed time period.



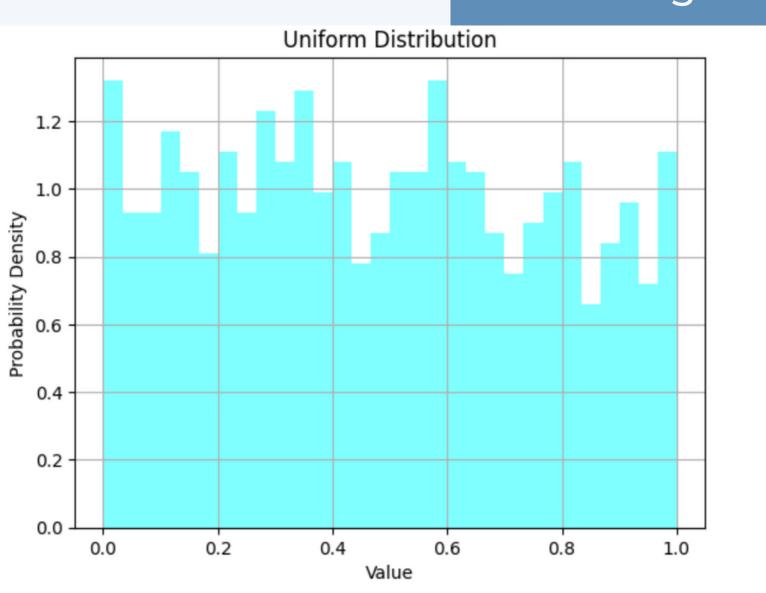
Exponential Distribution

The exponential distribution models the time between consecutive events in a Poisson process. It is commonly used in reliability analysis and to model waiting times.



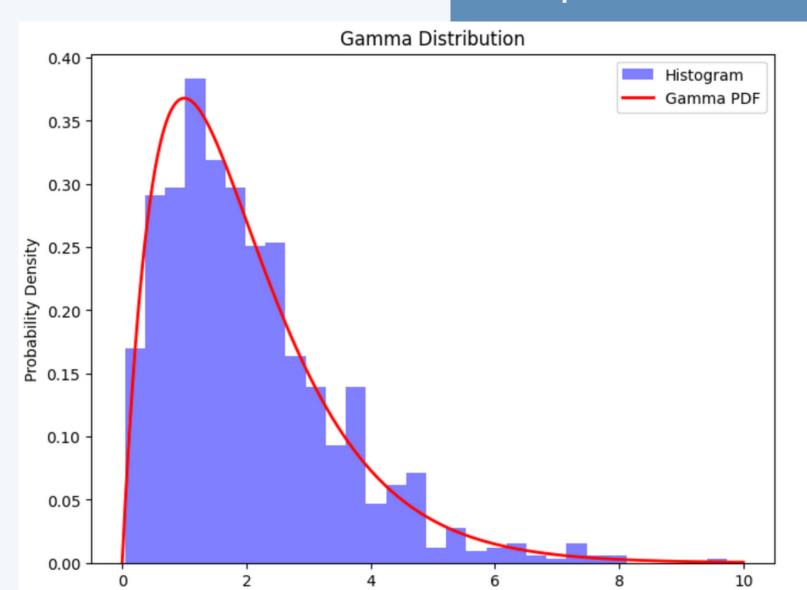
Uniform Distribution

The uniform distribution assigns equal probability to all values within a specified range. It's often used for generating random numbers with equal likelihood across the range.



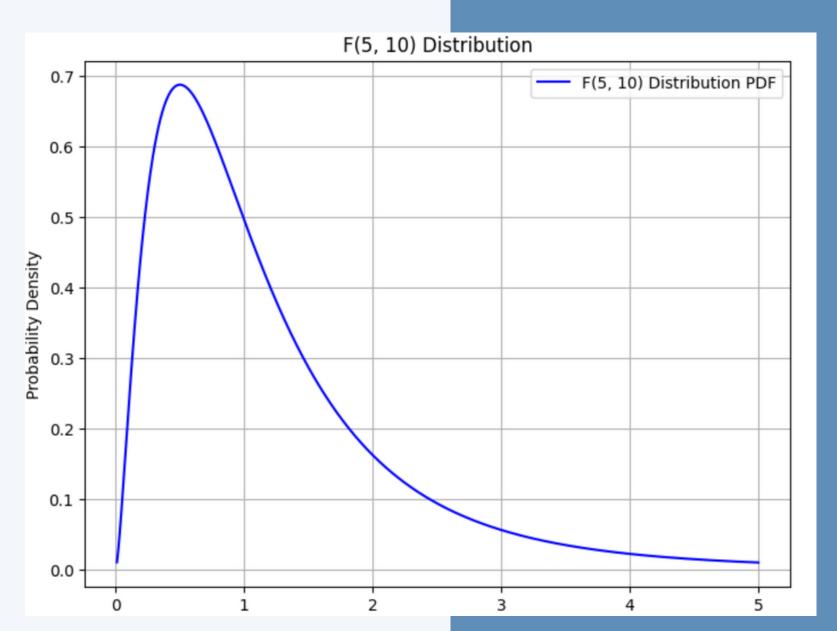
Gamma Distribution:

The gamma distribution is a versatile continuous probability distribution used for modeling positive-valued data. It generalizes other distributions like the exponential and chisquared distributions.



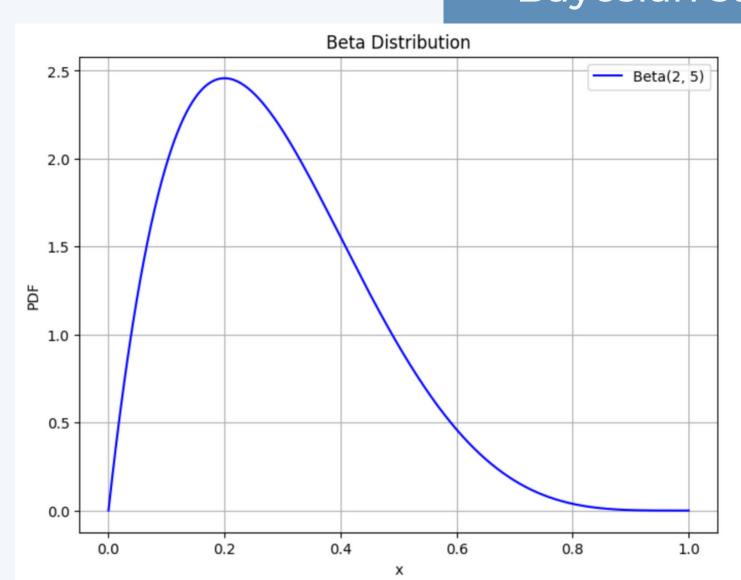
F Distribution

The F-distribution is commonly used in statistical tests, such as ANOVA (Analysis of Variance) and regression analysis, to compare variances or test hypotheses about population variances.



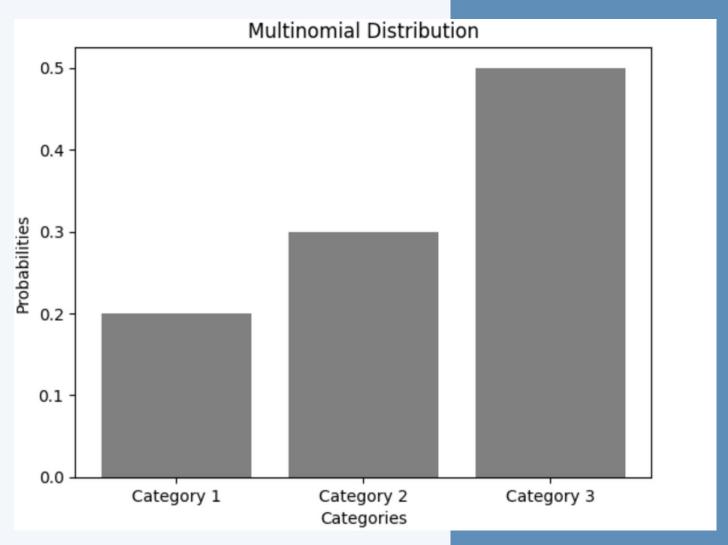
Beta Distribution

The beta distribution is a flexible family of continuous probability distributions defined on the interval [0, 1]. It's often used to model probabilities and is commonly employed in Bayesian statistics.



Multinomial Distribution

The multinomial distribution is a generalization of the binomial distribution to more than two categories. It is used for modeling categorical data with multiple outcomes, where each outcome has a specified probability.



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