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October 28, 2024

Probability and Applied Stats

Formula Sheet

Mean:

Variance:

Standard deviation:

Probability

Permutation:

The number of ways of partitioning n distinct objects into k distinct groups:

Combination:

Conditional probability:

Independence

Multiplicative law of probability

If A and B are independent, then

Additive law of probability:

Baye’s rule:

Discrete Expected Value/Mean of Y. E(Y):

Discrete Variance

Discrete standard deviation

Binomial Distribution

Geometric probability distribution