

Distributions

An orientation of data points, broken down by their observed or predicted frequency of occurrence.

Visualizations - distributions are commonly visualized through histograms and box plots





Example Histogram

Example Box Plot



Types

Two common types of distributions are continuous and discrete.

Continuous

Data can take on an infinite amount of possibilities within the range



Discrete

Where the potential results are finite or countably infinite number of potential results, based off a set of discrete variables





Normal Distribution

It has a bell shaped curve. Half the results fall above the mean and half fall below. The mean equals the median which equals the mode.





Standard Deviation

A common tool in analytics that measures the dispersion of a data population.





Characteristics

Three characteristics are skewness, bimodal, and multimodal.

Skewness



Measure of asymmetry in a distribution



Bimodal

2 Peaks





2 or more peaks

