**Algorithms**

K-means clustering is a currently approved machine learning algorithm. It is a popular unsupervised method. This means that it makes extrapolations from datasets using only input vectors without stating known or labelled conclusions.

K-means is used to group results into clusters or k clusters. K clusters are sorted around centroids using the mean of each cluster. Clusters are chosen and assigned to a variable K. for example, if K =4, number of clusters will be 4.

Since results are grouped due to similar features, K-means can be used to identify purchase habits, identify personal interests through activity history. It can also be used to separate audio based on sensor measurements. Group images and distinct legitimate activity groups from bots.