# DBSCAN CLUSTERING

Till now we have learned two types of clustering techniques (K-Means, Hierarchical clustering techniques) the why DBSCAN clustering again

* K-Means and Hierarchical both fail in creating the arbitrary clusters of arbitrary shapes. They are not able to form clusters based on densities that’s why we need DBSCAN
* Density Based Spatial Clustering of Applications with Noise
* K-Means and Hierarchical clustering fails in detecting the Noise in the data set
* DBSCAN is used to detect and form another cluster
* ***It was proposed by Martin Ester et al. in 1996. DBSCAN is a density-based clustering algorithm that works on the assumption that clusters are dense regions in space separated by regions of lower density.***
* **The most exciting feature of DBSCAN clustering is that it is robust to outliers**.