

K Nearest Neighbor

- A supervised ML algorithm, used for both regression and classification
- A non linear model, it can learn non linear relation between features and target attributes
- Simplest algorithm, very faster to train a model
- It is one of the exception in supervised learning algorithms which stores the training data (memorizes the training data), uses whole data while making each prediction. This makes KNN as very slow while making predictions, the trained as bulky as the data size.
- It can learn and give comparatively better results even on small data
- KNN is also widely used as part of ML based missing data handling.