## Using the Appropriate Norm In The K-Nearest Neighbours Analysis

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## **Technical Note**

One can note that in most literature about K-Nearest Neighbours Analysis, the author's usually take the Euclidean Distance (the L2 Norm) for the nearness analysis. However, we should know that not all Sets under investigation are continuous in nature and some take quantized values. Hence, for a given set of points, we should first find the quantized field function which gives the set of concern as its eigen spectra. For such Quantum Field function, we can construct the appropriate Metric that satisfies the given set of points. Now from this Metric, we can construct the appropriate Norm for considering the Nearness Analysis.