K-NN REGRESSION:

KNN Regression is a non-parametric method that is, in a intuitive manner, approximates the association between independent variables and the continuous outcomes by averaging the observations in the same neighbourhood.

STEPS INVOLVED IN K-NN REGRESSION:

STEP-1: Load the data set.

STEP-2: Initialize is to your choosen number of neighbors

STEP-3: calculate the distance between the query point and the current point from that data.

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STEP-4: Add the distance and the index of the point to an ordered collection.

STEP-5: Sort the ordered collection of distances and indices from smallest to largest i.e., in ascending order by the distances.

STEP-6: Pick the first 'k' intries from the sorted collection.

STEP-7: Get the labels of the selected 'k'
entries

STEP-8: As it is regression, it returns the mean of the 'k' labels:

*- If it is classification, it retwens the mode of the 'K' labels.

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As we we looking for the newest distances we go with the distances

of discreate values.

For Example,

If
$$K = 5 \Rightarrow \Sigma(Y_1, Y_2, Y_3, Y_4, Y_5)$$

The above one gives (or) supresents the Predictor variable of 29 where $\chi_q \rightarrow MEDN OF K-NN$

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values of outcomes and the production