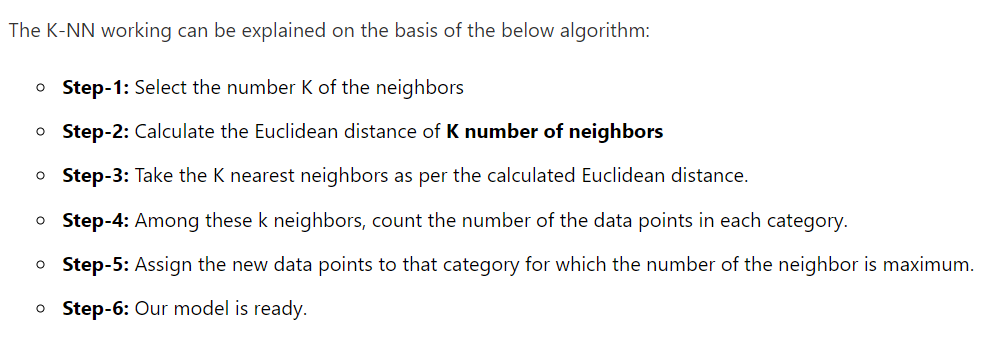
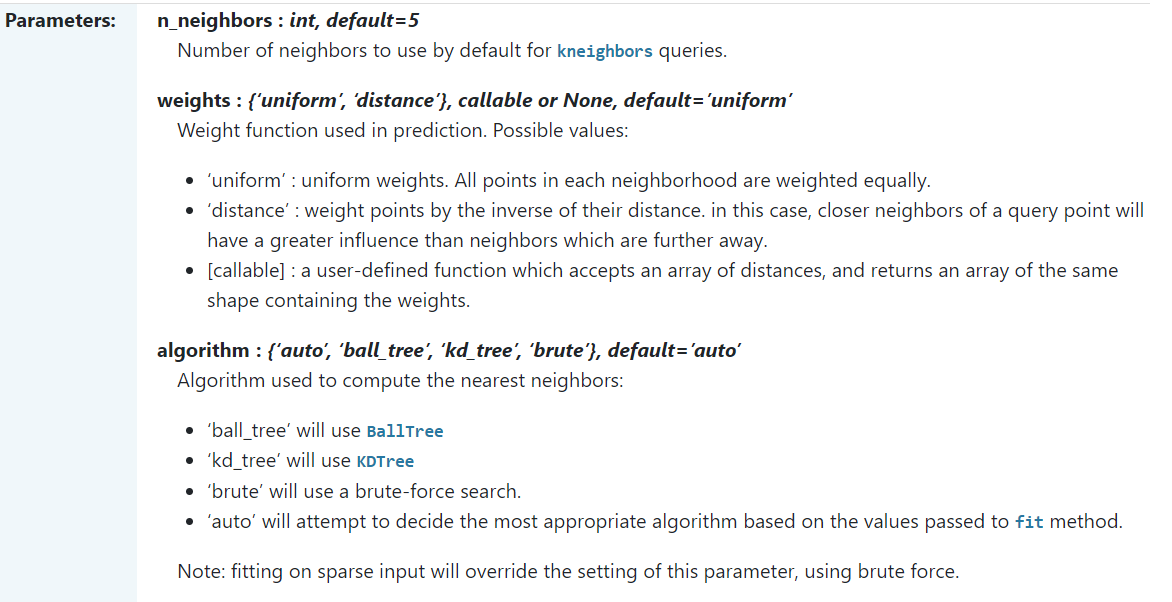
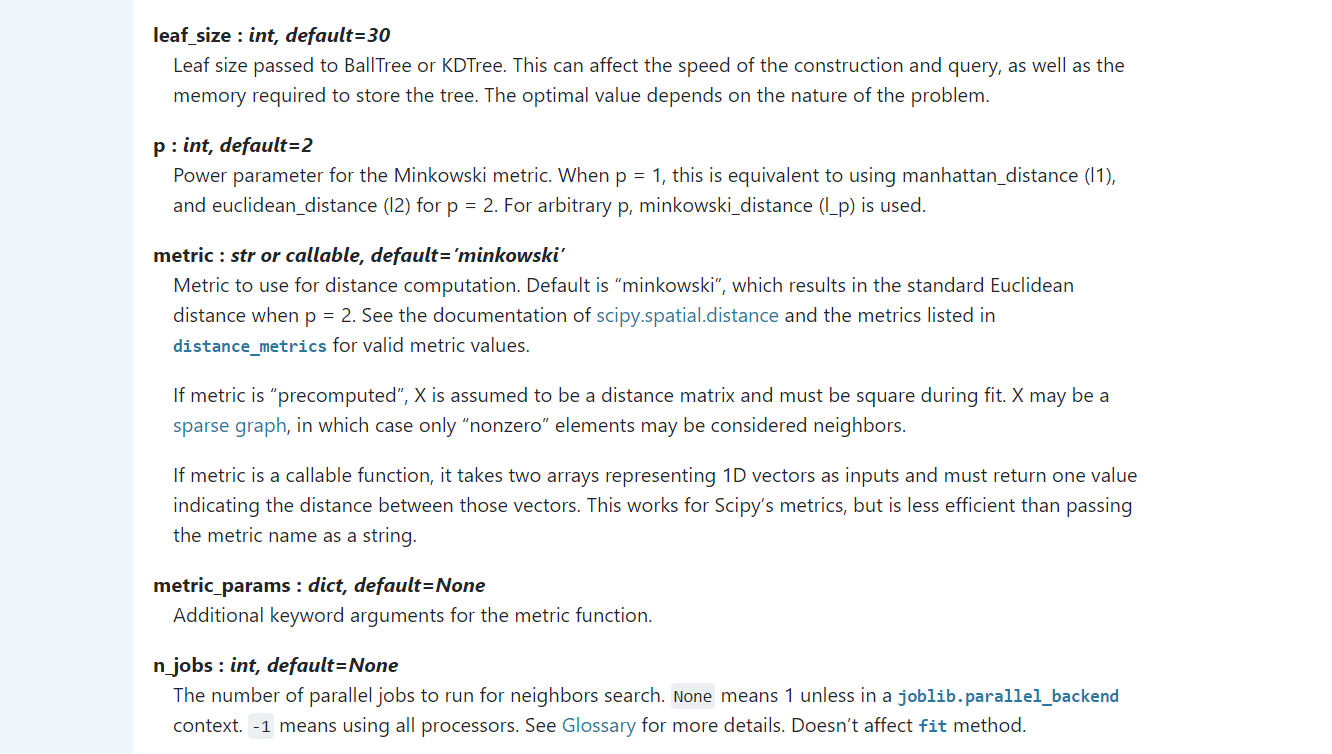
# KNN Algorithm in Sleep Stage Prediction Model

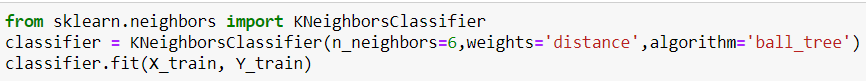


The parameters offered by sklearn.neighbors.KNeighborsClassifier are :-





## Architecture



The n\_neighbors parameter determines the value of K. We have taken the value of n\_neighbors = 6, as the total number of categories (Sleep Stages) is 5. The weights = ‘distance’ sets the criteria for selecting the K nearest neighbours as Euclidean Distance. The algorithm = ‘ball\_tree’ sets the algorithm as Ball Tree algorithm. Setting all other parameters as default.

This architecture gives the best results in the KNN Classifier.

## Classification Report

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