***Algorithm****='auto': ‘auto’ will attempt to decide the most appropriate algorithm based on the values passed to*[***fit***](https://scikit-learn.org/dev/modules/generated/sklearn.neighbors.KNeighborsClassifier.html#sklearn.neighbors.KNeighborsClassifier.fit)*method.*

***leaf\_size****=30: Leaf size passed to BallTree or KDTree. This can affect the speed of the construction and query, as well as the memory required to store the tree. The optimal value depends on the nature of the problem.*

***n\_jobs****=None: The number of parallel jobs to run for neighbors search. None means 1 unless in a*[***joblib.parallel\_backend***](https://joblib.readthedocs.io/en/latest/generated/joblib.parallel_backend.html#joblib.parallel_backend)*context. -1 means using all processors.*

***weights****='uniform': All points in each neighborhood are weighted equally*

***metric****='minkowski': Default is “minkowski”, which results in the standard Euclidean distance when p = 2*

***metric\_params****=None: Additional keyword arguments for the metric function.*

***p****=2: Power parameter for the Minkowski metric.*

*When p = 1, this is equivalent to using manhattan\_distance (l1),*

*When p = 2, this is equivalent to euclidean\_distance (l2)*

*For arbitrary p, minkowski\_distance (l\_p) is used. This parameter is expected to be positive.*

***n\_neighbors****=5: number of k’s*