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| --- | --- | --- | --- | --- | --- |
| Tech | | Sequence of location type (text) | Pair of  location&  duration  (text) | Sequence  of location type (01/duration)  no order | Parameter |
| Naïve Bayes  (GaussianNB) | | √ | √ |  | class\_prior\_;class\_count;  theta\_;sigma\_ |
| Global edit  distance | | √ |  | √ | distance |
| Cluster | K-means |  |  | √ |  |
| Mean-shift |  |  | √ | bandwidth: radius;  seeds: centroid |
| Spectral  Clustering |  |  | √ | n\_clusters: number of centroids; affinity: kernel func; gamma |
| Hierarchical Clustering |  |  | √ | n\_clusters; linkage: the way judging similarity |
| DBSCAN |  |  | √ | Eps: The maximum distance between two samples; min\_samples: Minimum sample number |
| Birch |  |  | √ | n\_clusters; threshold: smaller more clusters |
| Gaussian  Mixture  Model |  |  | √ | N\_components: The number of Gaussian models, that is, the number of clustering targets  Covariance\_type: The type of covariance used to estimate parameters by the EM algorithm. Default is "Full"  Full: Each model USES its own general covariance matrix  Tied: The models share a common covariance matrix  Diag: Each model USES its own diagonal covariance matrix  Spherical: Each model USES its own single variance |