# Performance Metrics of the K-Nearest Neighbors (KNN) Model

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| --- | --- | --- | --- | --- | --- | --- | --- |
| param\_n\_neighbors | param\_weights | param\_metric | mean\_test\_accuracy | mean\_test\_precision | mean\_test\_recall | mean\_test\_f1 | rank\_test\_accuracy |
| 3 | uniform | euclidean | 0.909939 | 0.918637 | 0.900588 | 0.909151 | 1 |
| 3 | uniform | minkowski | 0.909939 | 0.918637 | 0.900588 | 0.909151 | 1 |
| 3 | distance | euclidean | 0.907587 | 0.926863 | 0.886387 | 0.905452 | 3 |
| 3 | distance | minkowski | 0.907587 | 0.926863 | 0.886387 | 0.905452 | 3 |
| 3 | distance | manhattan | 0.90641 | 0.926719 | 0.884034 | 0.904061 | 5 |
| 3 | uniform | manhattan | 0.905206 | 0.917835 | 0.89112 | 0.903803 | 6 |
| 5 | distance | manhattan | 0.902846 | 0.928027 | 0.874538 | 0.899889 | 7 |
| 5 | distance | euclidean | 0.898105 | 0.925095 | 0.867395 | 0.894824 | 8 |
| 5 | distance | minkowski | 0.898105 | 0.925095 | 0.867395 | 0.894824 | 8 |
| 7 | distance | manhattan | 0.896915 | 0.923477 | 0.867423 | 0.893738 | 10 |