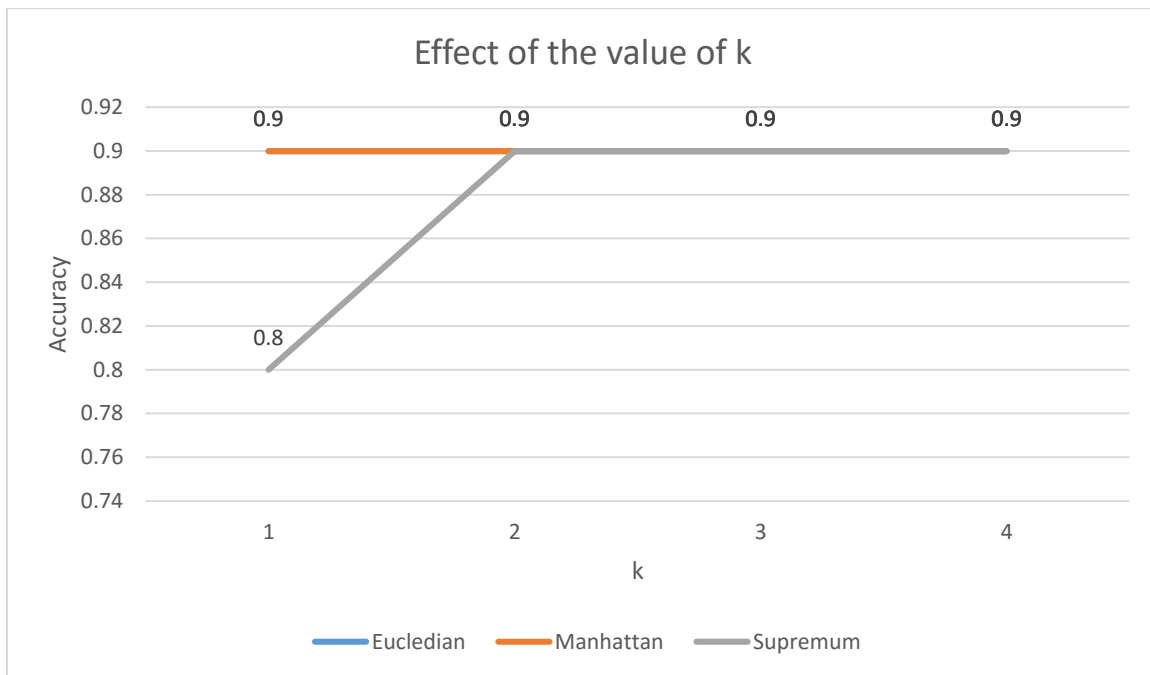


Accuracy of prediction and the effect of the value of k

Accuracy of the classifier

k	Eucledian	Manhattan	Supremum
1	0.9	0.9	0.8
2	0.9	0.9	0.9
3	0.9	0.9	0.9
4	0.9	0.9	0.9
5	0.9	0.9	0.9

The table above is derived from the data in the file “output.txt”.



Observation –

- 1) Effect of k: Increasing the value of k implies that a larger data set is being chosen for predicting the class. As shown in the data above, when $k=1$, the accuracy of prediction by Supremum was 0.8, but subsequently when the value of k was increased, the accuracy of prediction by Supremum went up to 0.9.
- 2) Effect of distance metric: As shown by the data above, all the 3 distance metrics have evaluated to almost the same value.