

Figure 11: Distance calculation Using FCNN Algorithm

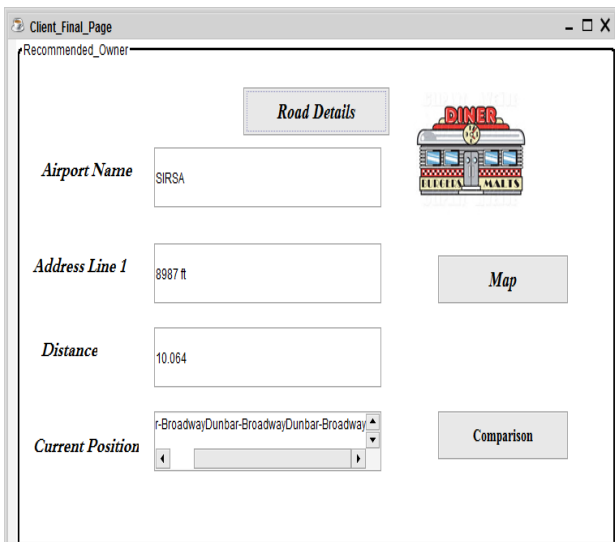


Figure 12: Entering Road Details

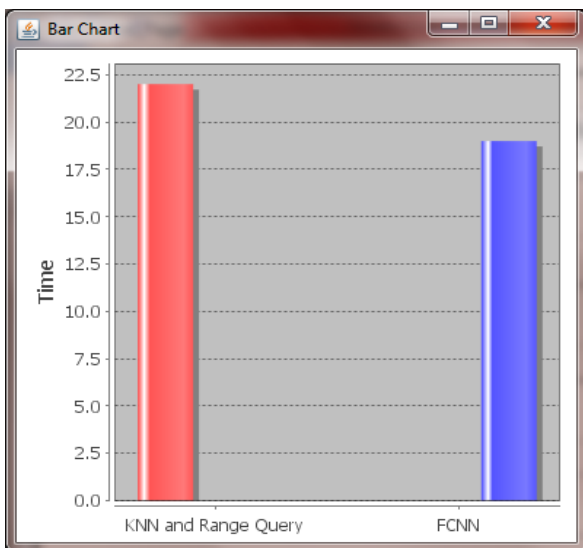


Figure 13: Comparison between KNN, Range Query and FCNN

## 8. Conclusion

RASP aims to preserve the topology of the queried vary in the rattled area, and permits to use indices for efficient vary question process. With the topology-preserving features, one can develop economical vary question services to realize sub. kNN classifies unknown instances based on a majority vote of the k nearest examples from the training set. The most frequent class label amongst these k nearest examples is then assigned to our unknown instance. Where as in CNN, the condensed nearest neighbour rule for data reduction, The database is summarized by finding only the important data points. It reduces the data set to a condensed data set. It labels points as either prototypes, outliers or absorbed points. Only prototypes are used in classification tasks, validation tests and maps, as they are considered to be more or less representative of all of the points in the initial data set. The performance of FCNN is better than kNN for large dataset as it find out prototypes first and then perform kNN algorithm later.

## References

- [1] B. Wang, B. Li, and H. Li, "Public Auditing for Shared Data with Efficient User Revocation in the Cloud," in *the Proceedings of IEEE INFOCOM2013, 2013*, pp. 2904–2912.
- [2] M. Armbrust, A. Fox, R. Griffith, A. D. Joseph, R. H. Katz, A. Konwinski, G. Lee, D. A. Patterson, A. Rabkin, I. Stoica, and M. Zaharia, "A View of Cloud Computing," *Communications of the ACM*, vol. 53, no. 4, pp. 50–58, April 2010.
- [3] F. Anguilli, Fast Condensed Nearest Neighbor Rule. *Proceedings of the 22nd International Conference on Machine Learning, Bonn, Germany, 2005*.
- [4] Zohreh Alavi, Lu Zhou, James Power, Keke Chen, "RASP-QS: Efficient and Confidential Query Services in the Cloud", *Proceedings of the VLDB Endowment, Vol. 7, No. 13*
- [5] C.Wang, Q.Wang, K.Ren, and W.Lou, "Privacy-Preserving Public Auditing for Data Storage Security in Cloud Computing"
- [6] Huiqi Xu, Shumin Guo, Keke Chen, "Building Confidential and Efficient Query Services in the Cloud with RASP Data Perturbation" *Knowledge and Data Engineering, IEEE Transactions on (Volume:26, Issue: 2)*
- [7] Everitt, B.S., Landau, S., Leese, M. and Stahl, D. (2011), "Miscellaneous Clustering Methods, in Cluster Analysis", 5th Edition, John Wiley & Sons, Ltd, Chichester, UK
- [8] Cover TM, Hart PE (1967). "Nearest neighbor pattern classification". *IEEE Transactions on Information Theory*.
- [9] T. M. Cover and P. E. Hart, "Nearest Neighbor Pattern Classification", *IEEE Trans. Inform. Theory*, Vol. IT-13, pp 21-27, Jan 1967.
- [10] K. Chidananda and G. Krishna, "The condensed nearest neighbor rule using the concept of mutual nearest neighbor", *IEEE Trans. Information Theory*, Vol IT- 25 pp. 488-490, 1979.
- [11] F Anguilli, "Fast Condensed Nearest Neighbor", *ACM International Conference Proceedings, Vol 119, pp 25-32*