









TABLE 3: SAMPLE OF THE CLASSIFICATION PERFORMED USING KNN

Value of K	Partition Percentage	Accuracy (in %)
3	50% of records as training record and 50% as test records	51.1363
5		86.3636
7		72.7273
9		71.5909
3	75% of records as training record and 25% as test records	51.1111
5		51.1111
7		51.1111
9		51.1111
3	25% of records as training records and 75% as test records	40.6015
5		39.8496
7		33.8346
9		11.2782

## CONCLUSION

Data mining is one of potential technology in the current world which is generating lot of data ,more or less upon every single activity ,the data is getting generated and being collected. Implementation work has helped to get the understanding of the potential of Data mining and to come up with an application that would classify the given voice as either Cat or Dog. Further experimental results shows that tweaking between the values selection for K in KNN algorithm also influences the accuracy of the classification. Further the quality and size of the training set also influences the accuracy of the classification.

## REFERENCES

- [1] Graf, S., Herbig, T., Buck, M. et al. EURASIP J. Adv. Signal Process. (2015) 2015: 91. <https://doi.org/10.1186/s13634-015-0277-z>
- [2] David L. Olson, Dursun Delen. Advanced Data Mining Techniques.(2015). <https://doi.org/10.1007/978-3-540-76917-0>
- [3] Sonali Guglani, Sunaina Bagga, Ankit Goyal, “ Description about predictive and descriptive data mining” . International journal of advanced and innovative research(IJAIR),2012, ISSN: 2278-7844,Page(s):303-306
- [4] M. Pechenizkiy, S. Puuronen, A. Tsymbal,” Feature extraction for classification in the data mining process”. International Journal "Information Theories & Applications",2003, ISSN 1310-0513 ,Vol 10,Page(s):271-278
- [5] A David,Handbook of Condition Monitoring.Chapman and Hall,Uk:University of Wales-Cardiff,1998
- [6] Domenicantonio Grillo, et.al, “An Efficient Extension of the Zero-Crossing Technique to Measure Frequency of Noisy Signals”, 978-1-4577-1772-7/12/\$26.00 ©2012 IEEE.
- [7] Shilpa.R,Savitha Shetty K L, P. S. Puttaswamy , “Analysis of Signals Affecting the Quality of Power”, Journal of Signal Processing and Wireless Technologies(JSPWT),2017,Vol 1,Page(s)10-13
- [8] P.Daponte D.Grimaldi A.Molinario Ya.D.Sergeyev,” Fast detection of the first zero-crossing in a measurement signal set”,ScienceDirect,Elsevier,1996,Vol 19,Issue 1:Page(s):29-39
- [9] Jiawei Han and Micheline Kamber (2006), Data Mining Concepts and Techniques, published by Morgan Kauffman, 2nd ed.
- [10] Karel Dejaeger, Wouter Verbeke, David Martens, and Bart Baesens,” Data Mining Techniques for Software Effort Estimation: A Comparative Study”, IEEE Transactions On Software Engineering, Vol. 38, No. 2, March/April 2012