Our Publications and Conference Presentations

Our Publications:

1. P. Pandit and S. Bhatt, Automatic speech recognition of Gujarati digits using wavelet coefficients in machine learning algorithms, International Journal of Innovative Computing and Applications, Inderscience Publishers, ISSN: 1751-6498, Vol. 14, No. 4, pp 191-200, 13 October 2023. (**Scopus-indexed**)
   DOI: `https://doi.org/10.1504/IJICA.2023.134184`

2. P. Pandit and S. Bhatt, Automatic Speech Recognition of Gujarati Digits Using Wavelet-Based features in Gaussian Mixture Models and Hidden Markov Models, Global Review of Business and Technology, The Global knowledge Foundation, USA Inc., ISSN: 2767-1941, Vol. 2, No. 2, pp 1-10, July 2022
   Link: `https://grbt.gkfusa.org/vol-4/`

3. P. Pandit and S. Bhatt, Automatic Recognition of Digits Spoken in the Gujarati Language Using Hidden Markov Models, American Institute of Management and Technology Conference Proceedings, The Global knowledge Foundation, USA Inc., ISSN: 2769-5093, Vol. 2, No. 1, pp 22., May 2022.
   Link: `https://aonapps.s3.ap-southeast-1.amazonaws.com/GKF/AIMT-GBU-C ONFERENCE-PROCEEDINGS-FINAL-05-AUG.pdf`

4. P. Pandit, P. Makwana, and S. Bhatt, Automatic Speech Recognition of Continuous Speech Signal of Gujarati Language Using Machine Learning, Mathematical Modelling, Computational Intelligence Techniques and Renewable Energy, Advances in Intelligent Systems and Computing, Springer, ISBN: 978-981-15-9952-1, Vol. 1287, pp 147159, 28 February 2021. (**Scopus-indexed**)
   DOI: `https://doi.org/10.1007/978-981-15-9953-8_13`.

5. P. Pandit, and S. Bhatt, "Automatic Speech Recognition of Gujarati Digits using Wavelet Coefficients", Journal of The Maharaja Sayajirao University of Baroda, (Science and Technology), ISSN: 0025-0422, Vol. 52 (1), pp. 101-110, February 2017. (**UGC-Care listed**)

6. P. Pandit, and S. Bhatt, "Automatic Speech Recognition of Gujarati Digits using Radial Basis Function Network", Proceedings of International Conference on Futuristic Trends in Engineering, Science, Pharmacy and Management, A D Publication, ISBN: 978-81-933386-0-5, pp. 216-226, December 2016.
Link: `https://adpublication.org/UploadFiles/PublishPaper/DoL12sHp_+U=/idqHoHDLEaQ=/180281.pdf`

7. P. Pandit, S. Bhatt, and P. Makwana, "Automatic Speech Recognition of Gujarati Digits using Artificial Neural Networks", Proceedings of 19th Annual cum 4th International Conference of GAMS on "Advances in Mathematical Modeling to Real World Problems, ISBN: 978-81-928100-8-9, pp. 141-146, October 2014.

8. P. Pandit, and S. Bhatt, "Automatic Speech Recognition of Gujarati Digits using Dynamic Time Warping", International Journal of Engineering and Innovative Technology, ISSN: 2277-3754, Vol.3 (12), pp. 69-73, June 2014.
Link: `https://www.ijeit.com/Vol%203/Issue%2012/IJEIT1412201406_14.pdf`.

Our Conference Presentations:

1. P. Pandit and S. Bhatt, Automatic Recognition of Digits Spoken in the Gujarati Language using Hidden Markov Models, 2022 AIMT-GBU Spring International Conference on Interdisciplinary Research in Applied Science, Management and Technology, 27 May, 2022. (**Best paper award**)

2. P. Pandit and S. Bhatt, Speech Recognition of isolated words in Gujarati language using Wavelet Coefficients in Machine Learning Algorithms, NUV Shodhan - A Doctoral Colloquium, Navrachana University, Vadodara, 6 August, 2021.

3. P. Pandit, P. Makwana and S. Bhatt, Automatic Speech Recognition of Continuous Speech Signal of Gujarati Language using Machine Learning, First International Conference on Mathematical Modelling, Computational Intelligence Techniques and Renewable Energy (MMCITRE2020), PDPU, Gandhinagar, 21-23 February, 2020.

4. P. Pandit and S. Bhatt, Automatic Speech Recognition by Machine Learning using Wavelet coefficients for Gujarati language, 8th International Conference and 24th Annual Conference of Gwalior Academy of Mathematical Sciences (ICGAMS-2109) on Mathematical and Computational Data Science with Application and Symposium on Advances in Special Functions and Applications, VIT Bhopal University, Sehore, 13-15 December, 2019. (**Young Scientist Award**)

5. P. Pandit, S. Bhatt, "Automatic Speech Recognition of Gujarati Digits using Wavelet Coefficients", International Conference on Advances in Computing, Communication and Informatics, The Maharaja Sayajirao University of Baroda, Vadodara, 25 February, 2017. (**Best paper award (Second)**)

6. P. Pandit, S. Bhatt, "Automatic Speech Recognition of Gujarati Digits using Radial Basis Function Network", International Conference on Futuristic Trends in Engineering, Science, Pharmacy and Management, Hotel Suba Elite, Vadodara, 23 December, 2016.

7. P. Pandit, S. Bhatt, "Mathematical Modeling of Speech Production Process and Speech Recognition of Gujarati Digits", International Conference on Current Trends in PDEs: Theory and Computations, South Asian University, New Delhi, 28-30 December, 2015.

8. P. Pandit, S. Bhatt, P. Makwana, "Automatic Speech Recognition of Gujarati Digits using Artificial Neural Networks", 19th Annual cum 4th International Conference of GAMS on Advances in Mathematical Modeling to Real World Problems, SVNIT, Surat, 3-5 October, 2014. (**Young Scientist award (second)**)

9. P. Pandit and S. Bhatt, "Automatic Speech Recognition of Gujarati digits using Dynamic Time Warping", National Conference of Applied Mathematics (NCAM-2014), Parul Group of Institutes, Vadodara, 27-28 June, 2014.