

Name:	Dr. Ajay S. Patil
Designation:	Professor & Head, Department of Computer Applications
Address:	School of Computer Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon – 425 001
Contact Details:	Phone: 94239 75215 email: ajaypatil.nmu@gmail.com
Academic Qualification:	M.Sc. (1998), SET (1998), Ph.D. (2010)
Research Areas:	Machine Learning, Information Extraction, Natural Language Processing
Teaching and Professional Experience:	23 Years (upto 30 June 2021)

Research Projects Completed (04):

Name of the Investigators	Title of the Project	Amount (Lakhs)	Funding Agency	Year
Ajay S. Patil (PI)	Design and Analysis of Web Based Information System (Completed)	0.12	UGC, New Delhi	1999-2001
Prof. B. V. Pawar (PI) Ajay S. Patil (Co-I)	Development of Novel Information Retrieval (IR) Techniques using Data & Web Mining from the World Wide Web (WWW) (Completed)	9.13	UGC, New Delhi	2009-2012
Ajay S. Patil (PI)	Human Computer Interface for Ahirani Language using ASR (Completed)	0.70	VCRMS, NMU, Jalgaon	2013-2015
Ajay S. Patil (PI)	Design and Development of an Expert System for Gamete Donor Profile Selection using ICMR Prescribed Donor Attributes (Completed)	2.85	RGS&TC, Govt. of Maharashtra	2016-2018

Research Students (M.Phil. Awarded)

Sn	Name of Student	Title of the M.Phil. Thesis and Year of Award
1.	Mr. Vinod P. Mahajan	Study and Analysis of Web Log and User Behavior using Web Mining Techniques (July 2013)
2.	Ms. Ulka Prakash Patil	Measuring Search Engine Quality (July 2013)
3.	Ms. Megha S. Patil	Quality and Relevance of Domain Specific Search: A Case Study in Environmental Pollution (July 2013)

Research Students (Ph.D. Awarded)

Sn	Name of Student	Title of the Ph.D. Thesis and Year of Award
1.	Mrs. Harshali Patil	Design of an Improved Stemming Algorithm to Increase Retrieval Effectiveness of Marathi Text (Sept. 2017)
2.	Mr. Rajendra B. Patil	Design and Development of a Tool for Automatic Donor Matching in Sperm Bank and IVF Centres Using Data Mining Techniques (Dec. 2017)
3.	Ms. Nilima T. Mhaske	Design and Study of Automated Opinion Summarization System for Marathi Language (May 2018)
4.	Mrs. R. Srivaramangai	Investigation of Medical Bio-specimens for Categorizing the Stage of Colorectal Cancer using Digital Image Processing (July 2018)
5.	Mr. Sunil B. Patil	Dialect Detection of Spoken Marathi using Automatic Speech Recognition (May 2021)

Publications & Posters: [84]

Book Chapters: 05

1. Nita Patil, Ajay S. Patil and, B. V. Pawar, "Named Entity Recognition using Conditional Random Fields", *Procedia Computer Science, Elsevier, Vol. 167*, pp. 1181-1188, January 2020.
2. H. B. Patil, Ajay S. Patil, A Hybrid Stemmer for the Affix Stacking Language: Marathi. In: Brijesh Iyer, P. S. Deshpande, S. C. Sharma, Ulhas Shiurkar (eds) *Computing in Engineering and Technology 2019. Advances in Intelligent Systems and Computing (AISC Series)*, Springer, Singapore [Scopus Index, UGC listed] ISSN: 2194-5357
3. H.B. Patil, N.T. Mhaske, Ajay S. Patil, (2018) Design and Development of a Dictionary Based Stemmer for Marathi Language. In: Bhattacharyya P., Sastry H., Marriboyina V., Sharma R. (eds) *Smart and Innovative Trends in Next Generation Computing Technologies. NGCT 2017. Communications in Computer and Information Science (CCIS Series)*, vol 827. Springer, Singapore pp . 769 -777. [Scopus Index, UGC listed] ISSN: 1865-0929

4. Ajay S Patil, B.V. Pawar, *A Machine Learning Approach for Classification of Internet Web Sites*, IAENG Transactions on Electrical Engineering - Volume 1, edited by: Sio-Iong Ao (International Association of Engineers, Hong Kong), Alan Hoi-shou Chan (*City University of Hong Kong, Hong Kong*) and Hideki Katagiri (*Hiroshima University, Japan*), Li Xu (*Zhejiang University, China*) World Scientific Publishing Company, ISBN-13: 978-981-4439-07-7, January 2013, pp. 137-147
5. Ajay S Patil, *Impact of Information Technology on Society, Technology Environment and Human Values: A Metaphysical Approach to Sustainable Development*, K.M. Mohapatra (Ed.), Concept Book Publishing Company, New Delhi, ISBN: 81-8069-089-X, First Edition, 2004 pp. 196-200.

Journal Papers: 32

1. N.T. Mhaske, Ajay S. Patil, Resource creation for opinion mining: a case study with Marathi movie reviews. *International Journal of Information Technology, SpringerNature*, 2021, <https://doi.org/10.1007/s41870-021-00698-8>
2. Sunil B. Patil, Nita V. Patil, Ajay S. Patil, "Speaker-Independent Isolated Word Recognition using HTK for Varhadi – a Dialect of Marathi", *International Journal of Engineering and Advanced Technology (IJEAT)*, ISSN: 2249 – 8958, Volume-9 Issue-3, pp. 748-751, February, 2020.
3. Sunil Patil, Nita Patil and, Ajay Patil, "Development of ASR system based on isolated words of Ahirani spoken language: A Dialect of Khandesh", *Our Heritage*, Vol. 68, Issue. 27, 2020.
4. Sunil Patil, Nita Patil and Ajay Patil, "Automatic Speech Recognition (ASR) System for Isolated Marathi Words: using HTK", *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, ISSN: 2278-3075, Volume-8 Issue-12, pp.3702-3705, October 2019 (Scopus indexed, UGC care list)
5. Sunil Patil, Nita Patil and Ajay Patil, "Development of Isolated Malvani Spoken Word ASR System based on Hidden Markov Model", *International Journal of Computer Research & Technology (IJCRT)* ISSN:2454-7719, Vol-5, Issue-2, pp. 241-244 July-Dec 2019.
6. H.B. Patil, Ajay S. Patil, Natural Language Processing: An Overview", *RESEARCH JOURNEY: International Multidisciplinary E- Research Journal*, Special Issue 178: Recent Trends in Management, Computer Science and Applications (NCRTMCSA - 2019), ISSN :2348-7143, April 2019, 178
7. N.T. Mhaske, N.V. Patil, Ajay S. Patil, Extracting Subjective Information Systems, *International Journal of Information Systems*, Vol. 8, Issue. 2, 2018, pp. 133-137.

8. R.Mangai & N.V. Patil, Ajay S. Patil, "Feature Extraction of Colon and Rectum Cancer from MRI Images", International Journal of Advanced Research in Computer Science, Vol. 9, No. 1, 2018, pp.-746-754.
9. R. Mangai, P.S. Hiremath, Ajay S. Patil, Preprocessing MRI Images of Colorectal Cancer, International Journal of Computer Science Issues, Vol. 14, Issue 1, 2017, pp. 48-59.
10. N.T. Mhaske, Ajay S. Patil, Opinion Mining Techniques for Non-English Languages: An Overview, International Journal of Computational Linguistics (IJCL), Vol. 7, Issue 2, 2016, pp. 54-64.
11. N.T. Mhaske, Ajay S. Patil, Issues and Challenges in Analyzing Opinions in Marathi Text, International Journal of Computer Science Issues, Vol. 13, Issue 2, 2016, pp. 19-25.
12. N.T. Mhaske, Ajay S. Patil, Identifying Opinion Sentences in Marathi: A Machine Learning Approach, Platinum 2016, 6(4), 21-22, ISSN 2231-0096.
13. N.V.Patil, Ajay S. Patil, B.V.Pawar, Issues and Challenges In Marathi Named Entity Recognition, International Journal on Natural Language Computing, Vol. 5 Issue 1, 2016, pp. 15-30.
14. N.V.Patil, Ajay S. Patil, B.V.Pawar, Survey of Named Entity Recognition Systems with Respect to Indian and Foreign Languages, International Journal of Computer Applications, Vol. 134, Issue 16, 2016 pp. 21-26
15. H.B. Patil, Ajay S. Patil, Investigation of the Issues Related to Word Level Features of Marathi Language for Searching Web Content, International Journal of Computer Applications, Vol. 154, Issue 9, 2016, pp. 14-18
16. H.B. Patil & B.V.Pawar, Ajay S. Patil, A Comprehensive Analysis of Stemmers Available for Indic Languages, International Journal on Natural Language Computing (IJNLC), Vol. 5 Issue. 1, 2016, pp. 45-55
17. R.B.Patil, B.V.Pawar, Ajay S. Patil, Sperm Donor Selection using Nominal and Binary Variable Methods. International Journal of Computer Applications, Vol. 130, Issue 14, 2015, pp. 20-24.
18. R. Mangai, Ajay S. Patil, Survey of Segmentation Techniques of Cancer Images Emphasizing on MRI Images, International Journal of Computer Science Trends and Technology, Vol. 3 Issue 3, 2015, pp. 304-311.
19. K. B. Mahajan, Ajay S. Patil, R. H. Gupta, B. V. Pawar, A New ICT based Business Model for Tourism Industry for the Maharashtra and Goa States of India, International Journal of Hospitality and Tourism System (IJHTS), ISSN: 0974-6250, Vol. 8 Issue 1, 2015, pp. 64-69.
20. Ajay S. Patil , A Review of Soft Computing used in Assisted Reproductive Techniques (ART), International Journal of Engineering Trends and Applications, Vol. 2 Issue 3, 2015, pp. 88-93.
21. H.B. Patil & B.V.Pawar, Ajay S. Patil, Part-of-Speech Tagger for Marathi Language using Limited Training Corpora, International Journal of Computer Applications (0975 – 8887), 2014 pp. 33-37.

22. Ajay S. Patil, Automatic Speech Recognition for Ahirani Language using Hidden Markov Model Toolkit (HTK), International Journal of Computer Science Trends and Technology, Vol. 2 Issue 3, 2014, pp. 140-144.
23. S.V. Kapse, Ajay S. Patil, B.V. Pawar, Extraction Of Automatic Bilingual Technical Terms From Non-Parallel Corpora And Parallel Corpora For English-Devanagari Bilingual Information Retrieval, Journal of Chemo and Biosphere, ISSN: 2277-4238, Vol. 1 Issue 4, 2013, pp. 110-113.
24. H.B. Patil, Ajay S. Patil, Stemming for Indian Languages: Current State of the Art, Journal of Chemo and Biosphere, ISSN: 2277-4238, Vol. 1 Issue: 4, 2013, pp. 132-136.
25. V.P. Mahajan. N.V. Patil, H.B. Patil, Ajay S. Patil, Study and Analysis of Web Log and User Behaviour using Web Mining Techniques, Journal of Chemo and Biosphere, ISSN: 2277-4238, Vol. 1 Issue 4, 2013, pp. 146-151.
26. Swati Patil, Ajay S. Patil, B.V. Pawar, Search Engine Optimization: A Study, Research Journal of Computer and Information Technology Sciences, ISSN: 2320-6527, Vol 1, Issue 1, 2013, pp. 10-13.
27. Ajay S. Patil, B.V. Pawar, Automated Classification of Web Sites using Naïve Bayesian Algorithm, Lecture Notes in Engineering and Computer Science, ISSN- 20780958, e-ISSN- 20780966, Vol. 2195 Issue 1, 2012 pp. 519 to 523.
28. B.D. Deshmukh, Ajay S. Patil, B.V. Pawar, Comparison of Classification Algorithms using WEKA on Various Datasets International Journal in Computer Science and Information Technology (IJCSIT), ISSN: 0974-8385, Vol. 4, Issue 2, December 2011.
29. K.B. Mahajan, Ajay S. Patil, Dr. R.H. Gupta & Dr. B.V. Pawar, Use of Information and Communication Technology in the Tourism Industry of Maharashtra and Goa States: A Survey, International Journal of Hospitality and Tourism System (IJHTS), Volume 4 Issue 2, pp. 61-69. ISSN: 0974-6250, 2011.
30. Ajay S. Patil, B.V. Pawar, "Analysis of Traditional Information Retrieval Techniques Applied to the World Wide Web", International Journal in Computer Science and Information Technology (IJCSIT), ISSN: 0974-8385, Vol. 1, Issue 2, December 2008, pp. 63-73.
31. Ajay S. Patil, B.V. Pawar, A.K. Sharma, Impact of Information Technology on Society and Human Values", Library Progress (International) ISSN 0970-1052, Vol. 23 Issue 2, July-December 2003, pp. 115-118
32. Ajay S. Patil, S.B. Shirude, B.V. Pawar, "JALNET (Jalgaon Library Network): An Online Library Information System", Library Herald, ISSN 0024-2292, Vol. 41 Issue 3 September 2003, pp. 167-175

Conferences/Seminars: 29

1. Nita Patil, Ajay S. Patil and B. V. Pawar, "Named Entity Recognition using Conditional Random Fields", International Conference on Computational

- Intelligence and Data Science (ICCIDS 2019) organized by The NorthCap University, Gurugram, 6 & 7 September 2019.
2. Nita Patil, Ajay S. Patil and B. V. Pawar, "Named Entity Recognition for Marathi: Gazetteer and Pattern Matching Approach", 4th International Conference on Next Generation Computing Technologies (NGCT 2018), University of Petroleum & Energy Studies, Dehradun.
 3. Nita Patil, Ajay S. Patil and B. V. Pawar, Hybrid Approach for Marathi Named Entity Recognition, In proceedings of the 14th International Conference on Natural Language Processing (ICON-2017) at JadHAVpur Univerisity Kolkata, India. Publisher: NLP Association of India, pp: 103-111, url: <http://www.aclweb.org/anthology/W/W17/W17-7514>
 4. H.B. Patil, Ajay S. Patil, MarS: A Rule Based Stemmer for Morphologically Rich Language Marathi, in IEEE Xplore,IEEE International Conference on Computer, Communications and Electronics(COMPTHELIX 2017), to be held at Manipal University Jaipur, 1st-2nd July 2017 (IEEE Conference Record No. 40618)
 5. N.V. Patil, Ajay S. Patil, B.V.Pawar, HMM based Named Entity Recognition for Inflectional Language, in IEEE Xplore,IEEE International Conference on Computer, Communications and Electronics(COMPTHELIX 2017), to be held at Manipal University Jaipur, 1st-2nd July 2017(IEEE Conference Record No. 40618)
 6. K.B. Mahajan, R.R. Attarde, Ajay S. Patil, R.H. Gupta, B. V. Pawar, A Design and Development of Prototype Web Based Tourism Information System (WBTIS) for the Maharashtra and Goa States of India, International Conference on Computer Engineering and Information System (CEIS2016), Shanghai, China, November 12-13, 2016 in Advances in Computer Science Research (ACSR), Volume 52, ISSN 2352-538X: Proceedings of the 2016 International Conference on Computer Engineering and Information Systems, ISBN 978-94-6252-283-1, pp. 502-506. [doi:10.2991/ceis-16.2016.103](https://doi.org/10.2991/ceis-16.2016.103)
 7. N.V. Patil,H.B. Patil, Ajay S. Patil, B.V.Pawar, The State-of-the-Art of Named Entity Recognition for Natural Language Processing in the proceedings of National Conference on Emerging trends in Computer Science and Computer applications, Organized by Fergusson College, Pune during 7-8th Dec. 2013 pp 1-8.
 8. H.B. Patil, N.V. Patil, Ajay S. Patil, B.V.Pawar, A Domain Specific Stop-word List for Marathi Text Retrieval Systems, in the proceedings of National Conference on Emerging trends in Computer Science and Computer applications, Organized by Fergusson College, Pune during 7-8th Dec. 2013 pp 9-13.
 9. S.V. Kapse, S.S. Bhamare, Ajay S. Patil, B.V.Pawar, Identification of Noisy pages from Devanagari Web Pages, in the proceedings of National Conference on Emerging trends in Computer Science and Computer applications, Organized by Fergusson College, Pune, 7-8th Dec. 2013 pp 38-41.

10. N.V. Patil, Ajay S. Patil, Dr. B.V. Pawar, Named Entity Extraction Using Natural Language Toolkit (NLTK) on Informal Text and News Items, in Proceedings of UGC Sponsored Two days Third National Conference on Advances in Computing-2013 School of Computer Sciences, North Maharashtra University, Jalgaon , dt. 5th and 6th March 2013, ISBN 978-81-910591-7-5.
11. S.V. Kapse, Ajay S. Patil, Dr. B.V. Pawar, Identification of Source Language by Analyzing the Unicode Transformation Format, in Proceedings of UGC Sponsored Two days Third National Conference on Advances in Computing-2013 School of Computer Sciences, North Maharashtra University, Jalgaon , dt. 5th and 6th March 2013, ISBN 978-81-910591-7-5.
12. M.V. Patil, Ajay S. Patil, A Comparative Study of Mobile and Traditional Software Engineering with Reference to Business Applications, in Proceedings of UGC Sponsored Two days Third National Conference on Advances in Computing-2013 School of Computer Sciences, North Maharashtra University, Jalgaon , dt. 5th and 6th March 2013, ISBN 978-81-910591-7-5.
13. N.T. Mhaske, Ajay S. Patil, Sentiment Lexicon Construction for Non-English Languages: A Case Study for Marathi, in Proceedings of UGC Sponsored Two days Third National Conference on Advances in Computing-2013 School of Computer Sciences, North Maharashtra University, Jalgaon , dt. 5th and 6th March 2013, ISBN 978-81-910591-7-5.
14. B.V. Pawar, Ajay S. Patil, Automated Classification of Web Sites using Naïve Bayesian Algorithm" in proceedings of the IAENG International Conference on Data Mining and Applications (ICDMA'12), International MultiConference of Engineers and Computer Scientists 2012 (IMECS 2012), Kowloon, Hong Kong, 14th to 16th March 2012. (Proceeding published as special issue of Lecture Notes in Engg. and Computer Science, Vol. 2195 Issue 1, 2012 pp 519-523).
15. Ajay S. Patil, An Artificial Intelligence based Prototype of an Early Warning System to Forecast and Alarm Health Advice to Inhabitants of Jalgaon City Suffering from Asthma and other COPD Diseases", in Proceedings of UGC Sponsored two days National Conference on Environmental Surveillance for Natural Resource Management. ESNRM – 2012" dt. 9 & 10 January, 2012, ISBN 978-81-922978-1-1.
16. N.V. Patil, Ajay S. Patil, B.V. Pawar, Performance Evaluation of Search Engines: A Comparative Study, in Proceedings of International Conference on Recent Trends in Information Technology and Computer Science (ICRTITCS-2011), Thakur Educational Trust's Thakur College of Science and Commerce in Association with University of Mumbai, Mumbai, dt. 9th and 10th December 2011. ISBN 978-81-922978-1-1.
17. R.B. Patil, Ajay S. Patil, Effective Evaluation and Construction of Data Mining Techniques for Increasing the Success Rate of Procedures held at IVF Clinics, in Proceedings of International Conference on Recent Trends in Information Technology and Computer Science (ICRTITCS-2011), Thakur Educational Trust's Thakur College of Science and Commerce in Association with University of Mumbai, Mumbai, dt. 9th and 10th December 2011.

18. N.V. Patil, Ajay S. Patil, B.V. Pawar. "Relevance Evaluation of Major Search Engines for Searching Nutrition Related Information" in Proceedings of UGC Sponsored two days National Conference on Advances in Computing (NCAC-2011) Department of Computer Science, North Maharashtra University, Jalgaon dt. 24th and 25th February 2011.
19. N.V. Patil, Ajay S. Patil, B.V. Pawar, "Role of Information and Communication Technologies in Indian Rural Development: An Overview" in Proceedings of AICTE Sponsored Two days National Seminar on Sustainable Rural Development: A strategic Roadmap for Economic Excellence organized by Department of Management Studies, North Maharashtra University, Jalgaon dt. 25th & 26th September 2008.
20. H.B. Patil, B.V. Pawar, Ajay S. Patil, "Development of Morphological analyzer for Marathi Language" in Proceedings of UGC Sponsored two days National Conference on Advances in Computing (NCAC-2011), Department of Computer Science, North Maharashtra University, Jalgaon dt. 24th and 25th February 2011.
21. N.T. Mhaske, Ajay S. Patil, "Developing An Institutional Repository for Academic Libraries using Open Source Software System: DSpace as a Case Study" in Proceedings of UGC Sponsored two days National Conference on Advances in Computing, (NCAC-2011), Department of Computer Science, North Maharashtra University, Jalgaon dt. 24th and 25th February 2011.
22. R.B. Patil, Hiren Dand, Ajay S. Patil, "Knowledge Extraction and Fact Understanding using Opinion Mining", in the proceedings of Two days National conference on Intelligent Systems organized by B.N. Bandodkar College of Science, Thane, 26th and 27th November 2010.
23. Ajay S. Patil, B.V. Pawar and S.A. Patil, "ICT and its Implementation in Indian Higher Education System: Opportunities, Threats and Challenges", in the proceedings of the 27th Academic Conference organized jointly by AIFUCTO and NMUCTO at the North Maharashtra University, Jalgaon, 19th November to 21st November 2010.
24. Ajay S. Patil, B.V. Pawar, "Distributed Crawlers", in Proceedings of C.V. Raman Memorial Seminar (RMS-2007) organized by North Maharashtra University, Jalgaon dt. 28 Feb. 2007. (**Best Paper Presentation Award**)
25. Ajay S. Patil, B.V. Pawar, "Classification of Web Sites", in Proceedings of C.V. Raman Memorial Seminar (RMS-2005) organized by North Maharashtra University, Jalgaon dt. 28 Feb. 2005.
26. Ajay S. Patil, B.V. Pawar, "Intelligent Information Retrieval from the WWW", in Proceedings of C.V. Raman Memorial Seminar (RMS-2004) organized by North Maharashtra University, Jalgaon dt. 28 Feb. 2004. (**Best Paper Presentation Award**)
27. Ajay S. Patil, B.V. Pawar, "Searching the World Wide Web" in Proceedings of "Advances in Web Based Computing (AWBC-2002), Held during 10-11 October 2002 organized by Department of Computer Science, North Maharashtra University, Jalgaon.

28. Ajay S. Patil, B.V. Pawar, "XML: The Next Generation Data Representation for the Web" in proceedings of National Seminar on Information Technology: Current Trends (ITCT-2000), held during 22-24 Jan. 2000 at Post Graduate Department of Computer Science & Engineering, Amravati University, Amravati (abstract on pp. 5)
29. Ajay S. Patil, B.V. Pawar, "Impact of Information Technology on Human Values", in the proceedings of Seminar on Human Values & Technological Progress held during 13-14 Dec. 1999 at HBTI, Kanpur (pp. 337-347)

Poster Presentations: 18

1. Automatic Speech Recognition for Ahirani Using Hidden Markov Model Toolkit (HTK), (under VCRMS) University Level Research Festival: Avishkar-2015, North Maharashtra University, 22-23 December 2015
 2. Physical Characteristics Matching in In-Vitro Fertilization Treatment Process using Statistical Approach, RSC Symposium on Frontiers of Advances in Chemistry and Technology - 2015 (FACT-2015), North Maharashtra University, Jalgaon, 11-12 December 2015 (**Best Poster Award**)
 3. Human Computer Interface for Ahirani Language using Automatic Speech Recognition, (under VCRMS) University Level Research Festival: Avishkar-2013, North Maharashtra University, Jalgaon, 18-19 October 2013
- [B. A. Nikam, Uday Chatur]
4. Survey of POS Tagger for Code-Mixed Indian and Foreign Languages, National Conference on Advances in Computing, Organized by School of Computer Sciences, NMU, Jalgaon on 21st February 2018.
- [Uday Chatur, B. A. Nikam]
5. Survey of Analysis of Code-Mixed Text in Social Media, Poster presented at National Conference on Advances in Computing, Organized by School of Computer Sciences, NMU, Jalgaon on 21st February 2018
- [Sunil Patil]
6. Automatic Isolated Words Detection Using Spectral Features, Poster presented at National Conference on Advances in Computing, Organized by School of Computer Sciences, NMU, Jalgaon on 21st February 2018
- [Harshali Patil]
7. The Role of Text-preprocessing in Information Retrieval, National Conference on Advances in Computing, Organized by School of Computer Sciences, NMU, Jalgaon on 21st February 2018.
 8. Stemming for Information Retrieval: An Overview, University Level Research Festival: Avishkar-2011, North Maharashtra University, 28-29 December 2011.
- [Neelima T. Mhaske]
9. Genre based Document Classification for Opinion Corpus Visualization, National Conference on Advances in Computing, Organized by School of Computer Sciences, NMU, Jalgaon on 21st February 2018.

10. Opinion Mining: An Overview, University Level Research Festival: Avishkar-2011, North Maharashtra University, 28-29 December 2011.
[With Harshali B. Patil & Dr. B.V. Pawar]
11. "Web Documents Clustering using K-means Algorithm", University Level Research Festival: Avishkar-2010, North Maharashtra University, Jalgaon, 23-24 Dec., 2010.
12. "*Geographical Regional Crawling*", University Level Research Festival: Avishkar-2009, North Maharashtra University, Jalgaon, 1-2 December, 2009.
[With Surendra V. Kapse & Dr. B.V. Pawar]
13. "*Bilingual Search Engine using Pair Finder*", University Level Research Festival: Avishkar-2009, North Maharashtra University, Jalgaon, 1-2 December, 2009.
[With Dr. B.V. Pawar]
- (*University and State Level Research Competition Avishkar 2008-09, and Zonal Level Research Convention, Anveshan-2009*)
14. "*Web Site Classification Using Naïve Bayes Approach*", Interuniversity Zonal Level 2nd Research Convention, Anveshan 2009, Organized by Rajiv Gandhi Proudyogiki Vishwavidyalaya, (RGPV), Bhopal, Madhya Pradesh and Association of Indian Universities (AIU), New Delhi, 27–29 January, 2009.
15. "*Web Site Classification Using Naïve Bayes Approach*", State Level Research Festival: Avishkar-2009, Jointly organized by Amaravati University, Amaravati and Department of Higher Education, Government of Maharashtra, 7–11 January, 2009 (**State Level 2nd Prize in Science Category**)
16. "*Web Site Classification Using Naïve Bayes Approach*", University Level Research Festival: Avishkar-2008, North Maharashtra University, Jalgaon, 18-19 December, 2008 (**2nd prize in Science Group**)
[With Dr. B.V. Pawar]
- (*University and State Level Research Competition Avishkar 2007-08*)
17. "*A Novel Approach for the Cataloguing of Internet Web Sites*", Poster Presentation, University Level Research Festival: Avishkar-2008, Jointly organized by S.N.D.T. Women's University, Mumbai & Department of Higher Education, Government of Maharashtra, 10-12 January 2008.
18. "*A Novel Approach for the Cataloguing of Internet Web Sites*", Poster Presentation, University Level Research Festival: Avishkar-2007, North Maharashtra University, 18-19 December 2007. (**1st Prize in Science Group**)

Refresher/Orientation/Staff Development/Training Program attended: 8

1. One Week National Workshop Advanced in Computing (NWAC-2014) held at School of Computer Sciences, North Maharashtra University, Jalgaon, during 10-15 February 2014, sponsored by UGC, New Delhi.

2. Two Weeks AICTE Sponsored Staff Development Program on Software Applications (SDP-SA-2012) held at GFs Godavari College of Engineering, Jalgaon during 11.06.2012 to 22.06.2012 sponsored by AICTE, New Delhi.
3. Refresher Course in Information Technology (All Subjects) held at Department of Computer Science and Engg., Amravati University, Amravati during 13.06.2011 to 02.07.2011, organized by Academic Staff College, Amravati, sponsored by UGC, New Delhi. **(A Grade)**
4. General Orientation Programme held at Department of Adult and Continuing Education and Extension Services, North Maharashtra University, Jalgaon during 02.12.2009 to 29.12.2009, organized by Academic Staff College, Pune sponsored by UGC, New Delhi. **(A Grade)**
5. Refresher Course in Environmental Education (Computer Science) held at Department of Environmental Science, North Maharashtra University, Jalgaon during 04.02.2008 to 24.02.2008, organized by Academic Staff College, Pune sponsored by UGC, New Delhi. **(A Grade)**
6. One week training course "*E-Resource Management Using UGC-Infonet*" held at Information and Library Network Center (INFLIBNET), Ahmedabad during 3-7th February, 2004.
7. One week professional education course on "Intelligent Information Retrieval: Search Engines and Beyond", organized by National Center for Software Technology (NCST), New Mumbai: A Scientific R&D Institution of Government of India, Department of Information Technology, Ministry of Communications & Information Technology, Kharghar, CBD Belapur, 21-25 April, 2003.
8. One week workshop on "*Network Management for Libraries*" organized by Information and Library Network Center (INFLIBNET), Ahmedabad during 7th to 11th October 2002.

Sessions Chaired/Invited Talks Delivered/Jury Member: 29

1. Workshop on "Pursuing PhD in Computer Science and Information Technology" at Department of Information Technology, Mumbai University, Mumbai (Kalina Campus) on 2nd May 2019.
2. Workshop conducted by Department of Mass Communication and Journalism, School of Social Sciences, KBC NMU, Jalgaon during 31st January 2019.
3. National Conference on Advances in Computing (NCAC-2017) held at School of Computer Sciences, North Maharashtra University, Jalgaon, during 24th-25th March 2017.
4. IEEE International Conference on Global Trends in Signal Processing, Information Computing and Communication (ICSPICC-2016) Organized by SSBT's College of Engineering and Technology, Jalgaon during 22-24 December 2016.
5. State Level Seminar Recent Advances in Information and Communication Technology Organized by Maratha Vidya Prasarak Samaj's Karmaveer

- Abasaheb Alias NM Sonawane Arts, Commerce and Science College, Satana and sponsored by Savitribai Pune University, Pune during 6-7 January 2017
6. Delivered an Invited Talk at the Third National Conference on Recent Trends in Computer Science and Applications Organized by KCES's Institute of Management and Research on 18 February 2017
 7. University Level Festival Avishkar 2016, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, 27th and 28th December 2016
 8. Two Days State Level Workshop on Avenues for Research in Computer Science (ARCS) organized by Department of Computer Science, Sangamner Nagarpalika Arts, D.J. Malpani Commerce & B.N. Sarada Science College, Sangamner, Dist. Ahmednagar (MS) 15th and 16th December 2016
 9. One Day National Workshop on Writing Research Papers Skill, Plagiarism & Bibliometrics Study, Sardar Vallabhabhai Patel Arts and Science College, Ainpur, Tal. Raver Dist. Jalgaon, 3rd October 2015
 10. National Conference on Recent Trends in Computer Science and Application (NCRTCSA-2015), Organized by KCES's Institute of Management and Research, Jalgaon, dt. 27-28 Jan-2015
 11. "Recent Trends In Information Technology Search Engines and Beyond", National Level Technical Symposium (IT-Festa-2015), Organized by KCES's Institute of Management and Research, Jalgaon (6 and 7th Feb. 2015)
 12. "Applications of Internet and Search Engine Technologies in Research", National Workshop on Faculty Improvement for Research in Science and Technology (FIRST-2015), Organized by School of Chemical Sciences, North Maharashtra University, Jalgaon , dt. 18th to 24th June 2015
 13. National Conference on Recent Trends in Computer Science and Application (NCRTCSA-2015) Organized by KCES's Institute of Management and Research, Jalgaon, dt. 27th and 28th January 2015
 14. National Conference on Emerging Trends in Computer Science and Computer Applications (NCETCSA-2013), Organized by Deccan Education Society's Fergusson College, Pune dt. 7th and 8th December 2013
 15. Third National Conference on Emerging Trends in Information Technology (NCETIT-2014), Organized by Department of Information Technology, RC Patel Institute of Technology, Shirpur, Dist. Dhule (28th and 29th March 2014)
 16. UGC Sponsored National Conference on Current Trends in Software Development (NCCTSD-2013), Organized by KCE's Moolje Jaitha College, Jalgaon, dt. 8th and 9th February, 2013
 17. "How IT Happened: Internet and Search Engines", National Level Seminar on Information Technology, Convergence and Services, Organized by Royal Higher Education Society's Royal College of Arts, Science and Commerce, Thane dated 29th November 2012.
 18. UGC Sponsored two days Third National Conference on Advances in Computing-2013 (NCAC-2013), Organized by School of Computer Sciences, North Maharashtra University, Jalgaon , dt. 5th and 6th March 2013.

19. Third National Conference on Emerging Trends in Information Technology, (NCETIT 2012), Organized by Department of Information Technology, RC Patel Institute of Technology, Shirpur, Dist. Dhule, 21st April 2012
20. IMECS 2012, The 2012 IAENG International Conference on Data Mining and Applications (ICDMA), Kowloon Hong Kong organized by IAENG, (Session: ICDMA II) 14-16th March 2012.
21. Track 4 Advance Computer Networking, ICRTITCS-2011, Thakur College of Science and Commerce in association with University of Mumbai, Mumbai,
22. GRAMEEN, National Conference on Grameen: Envisioning the Growth of Real India organized by Department of Management, KCES's College of Engineering and I.T., Jalgaon Dt. 28th January 2012, (Session: "IT and Rural Development")
23. ICRTITCS-2011, International Conference on Recent Trends in Information Technology and Computer Science organized by Thakur College of Science and Commerce, Kandival (E), Mumbai in association with University of Mumbai, Mumbai, (Session: Track 4 Advance Computer Networking), 9-10th December 2011.
24. IT FESTA 2007, A National Level Research Event (Paper Presentation) organized by KCE's Institute of Management and Research, Jalgaon
25. A UGC sponsored State level seminar on Role of Information and Communication Technology for Enhancement of Quality Teacher Evaluation organized by KCE's College of Education, Jalgaon (Session: 4th Session - The Role of ICT in Distance mode of teacher Education on 8th March 2007)
26. Jury Member, IT FESTA 2007, A National Level Research Event, organized by KCE's Institute of Management and Research, Jalgaon
27. Jury Member, 10th State Level AIMS Programming Contest 13th February 2011
28. Jury Member, Paper Presentation Contest, Pinnacle'10-A State Level Event, 29th September 2010, GH Raisonni Institute of Information Technology, Jalgaon
29. Role of INFLIBNET in Library Automation, Use of SOUL Software for Library Automation, North Maharashtra University, Jalgaon, 21st February 2011

Organization of Conferences/Workshop/Symposia/Research Festival (Avishkar) etc. : 27

1. Member, Organizing Committee, National Workshop on Advances in Computing (Theme: Natural Language Processing, Image Processing & Information Retrieval) (NWAC-2019) organized by School Computer Sciences, North Maharashtra University, Jalgaon on 20-21 February 2019.
2. Dy. Co-ordinator and Member, Organizing Committee, Avishkar-2018, North Maharashtra University, Jalgaon, (Dec. 2018 and 2-3 Jan. 2019).
3. Member, Organizing Committee, National Conference on Advances in Computing, Organized by School of Computer Sciences, NMU, Jalgaon on 21st February 2018.

4. Member, Organizing Committee, Avishkar-2017, Organized by North Maharashtra University, Jalgaon
5. National Conference on Advances in Computing (NCAC-2017) held at School of Computer Sciences, North Maharashtra University, Jalgaon, during 24th-25th March 2017
6. Member, Organizing Committee, Avishkar-2016, Organized by North Maharashtra University, Jalgaon
7. Three days U.G.C. New Delhi, sponsored, National Workshop on Natural Language Processing and Image Processing (NWNLPIP-2016) organized by School Computer Sciences, North Maharashtra University, Jalgaon during 21st – 23rd January 2016.
8. Member, Organizing Committee, Avishkar-2015, Organized by North Maharashtra University, Jalgaon
9. Member, Organizing Committee, UGC Sponsored two days National Seminar on Natural Language Processing (NLPIP-2015), School of Computer Sciences, North Maharashtra University, Jalgaon , dt. 14th and 15th March 2015.
10. Member, Organizing Committee, UGC Sponsored three days National Workshop on Advances in Computing, NWAC-2015, School of Computer Sciences, North Maharashtra University, Jalgaon (1st to 3rd March 2015)
11. Member, Organizing Committee, Third Sustainable Biotech Congress, 2014, North Maharashtra University, Jalgaon, Cetys University, Mexico, Global Biotech Forum, Nagpur dt. 1-5 December-14
12. Member, Organizing Committee, UGC Sponsored National Workshop on Advances in Computing, NWAC-2014, School of Computer Sciences, NMU, Jalgaon (10 to 15 February 2014)
13. Member, Organizing Committee, Avishkar-2014, Organized by North Maharashtra University, Jalgaon
14. Member, Organizing Committee, International Conference on Global Opportunities for Latest Developments in Chemistry and Technology-2014 (GOLD-CT-2014), School of Chemical Sciences, North Maharashtra University, Jalgaon (February 6-8 2014),
15. Member, Organizing Committee, Avishkar-2013, North Maharashtra University, Jalgaon (18th and 19th October 2013)
16. Member, Organizing Committee, Avishkar-2013 (State Level), Organized by North Maharashtra University, Jalgaon, dt. 16-18, January 2014
17. Convener, UGC Sponsored two days Third National Conference on Advances in Computing-2013 (NCAC-2013), School of Computer Sciences, North Maharashtra University, Jalgaon , dt. 5th and 6th March 2013.
18. Member, Organizing Committee, Avishkar-2012, North Maharashtra University, Jalgaon dt. 13th and 14th December 2012
19. Member, Organizing Committee, UGC Sponsored two days Third National Conference on Advances in Computing-2012 (NCAC-2012), School of Computer Sciences, North Maharashtra University, Jalgaon , dt. 16th and 17th March 2012.

20. Member, Organizing Committee, UGC Sponsored two days National Seminar on Natural Language Processing (NLPIP-2012), School of Computer Sciences, North Maharashtra University, Jalgaon , dt. 16th and 17th January 2012.
21. Member, Organizing Committee, Softex 2011, Department of Computer Science, North Maharashtra University, Jalgaon, 8 October 2011
22. Member, Organizing Committee, UGC Sponsored two days Third National Conference on Advances in Computing-2011 (NCAC-2011), School of Computer Sciences, North Maharashtra University, Jalgaon , dt. 24 and 25 Feb. 2011.
23. Member, Organizing Committee, Avishkar-2011, North Maharashtra University, Jalgaon, 28-29, December 2011.
24. Member, Organizing Committee, Avishkar-2010, North Maharashtra University, Jalgaon, 23-24, December 2010.
25. Member, Organizing Committee, Avishkar-2009, North Maharashtra University, Jalgaon, 1-2 December, 2009.
26. Member, Organizing Committee, Avishkar-2008, North Maharashtra University, Jalgaon, 17-18, December 2008.
27. Member, Organizing Committee, Avishkar-2007, North Maharashtra University, Jalgaon, 18-19, December 2007.