

Dr. Aarti Bakshi

Qualification: Ph.D in Electronics and Communication

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Career Highlights

- Currently working as **Assistant Professor, Program Assessment Committee Incharge**, in **Electronics and Telecommunication Engineering Department** at K. C. College of Engineering and Management Studies and Research, Thane.
- Member of R&D committee, IQAC committees, Unfair Mean Committee, Technovision, Facilitation Center etc. in present organization.
- **Reviewer** for many IEEE, International Conferences and International Journal.
- Conducted session on “Latex- Documentation Software” a **resource person** at K.C College of Engineering and Management Studies and Research, Thane, Datta Meghe College of Engineering, Navi Mumbai, Hyderabad Institute of Technology and Management.
- **Paper setter** for University of Mumbai, K.J Somaiya College of Engineering, Dwarkadas J Sanghvi College of Engineering, Ramrao Adik Institute of Technology (Atuonomus).
- University of Mumbai Paper Setter, Moderator, Examiner, Syllabus Setter.
- SNDT Women's University M.Tech Examiner.
- Minor research project funded by University of Mumbai.
- Convened 2 STTPs and 8 workshops and 1 Project Competition.
- Appointed as **Institute Level Coordinator of Avishkar Research Convention for 2023**.
- Recognized as a teacher of the University of Mumbai for **M.E Degree in Electronics and Telecommunication Engineering**.
- Recognized as a teacher of the **University of Mumbai for M.E Degree in Computer Engineering**.

Teaching Experience

Institute /Organization	Position Held	Period of appointment
K.C College of Engineering and Management Studies and Research	Assistant Professor (Electronics and Telecommunication)	1 st Aug 2003 to June 2007 and Jan 2017 to till date
K.C College of Engineering and Management Studies and Research	HoD (Information Technology)	June 2007 to Jan 2017
Datta Meghe College of Engineering, Airoli, Navi-Mumbai.	Lecturer	October 2002 to May 2003
Govt. Polytechnic, Ahmednagar.	Guest Lecturer	August 1999 to May 2000

Qualification

Examination	University	Month & Year of Passing	Subject & Specialization	Class
Ph. D	Shreemati Nathibai Damodar Thackersey Women's University, Juhu, Mumbai, India.	Sept 2022	Electronics & Communication	Awarded
M.E	University of Mumbai, India.	Aug 2008	Electronics & Telecommunication	Distinction
B.E	University of Pune, India.	July 1998	Electronics	First Class

Membership of professional bodies

Sr. No	Name of Professional Body	Status
1	I.S.T.E	Life Member
2	I.E.T.E	Life Member

Publications

Journals

- Shraddha Bhandavle, Rasika Inamdar, **Aarti Bakshi**, “Emotion Based Speaker Recognition with Vector Quantization”, international conference “ICONECT’14,” 15 March 2014, in International Journal of Computer Applications ,ISBN: 973-93-80881-70-8
- Madhuri Jadhav, **Aarti Bakshi**,“Acoustic Noise Cancellation using LMS Filter on FPGA,” International Journal of Engineering Development And Research (IJEDR), ISSN: 2321-9939, Vol.2, Issue 4, pp.3997-4004, Dec 2014.
- Deepak Dave, **Aarti Bakshi**, “Design and Implementation of 16 bit Floating Point Processor for FFT applications,” International Journal of Engineering Development and Research, Volume no.3, Issue no.1, Jan 2015 ,ISSN no. 2321-9939
- Rohini Baburao Jadhao, **Aarti Bakshi**, “An Overview of Biometric System,” International Journal Of Scientific Research And Education, Volume 3, Issue 7, Pages-4046-4055, 7 July-2015, ISSN (e): 2321-7545.

- Sneha Jadiye, **Aarti Bakshi**, Manjiri Gogate, “Karaoke Machine Implementation and Validation using Out of Phase Stereo Method along with LMS,” International Journal of Engineering Development and Research (IJEDR), ISSN:2321-9939, Vol.3, Issue 1, pp.161-167, Jan 2015.
- Rohini Baburao Jadhao, **Aarti Bakshi**, “Optimization Technique for Improving Iris Recognition System,” International Journal of Innovative Research & Development, ISSN: 2278- 0211 online, Volume 4, Issue 1, Jan 2015.
- **Aarti Bakshi**, Sunilkumar Kopparapu “Spoken Indian language identification: a review of features and databases,” Springer India, Sādhanā (2018), Indian Academy of Sciences, Online ISSN 0973-7677.
- Kaustubh, Abhishek, Abbas, Mauresh, **Aarti Bakshi**, “Sign Language Recognition using Neural Networks,” International Journal of Latest Technology in Engineering, Management & Applied Science, Volume IX, Issue V, May 2020 , ISSN 2278-2540.
- Meera Ambre, Sayali Naik, Rahul Nair, Unmesh Sawant, **Aarti Bakshi**, “Financial Advisory Assistant Platform,” International Journal of Scientific Development and Research, Volume 5, Issue 5, May 2020, ISSN: 2455-2631.
- **Aarti Bakshi**, Sunilkumar Kopparapu, “A GMM supervector approach for spoken Indian language identification for mismatch utterance length,” Bulletin of Electrical Engineering and Informatics, Vol.10, No.2, April 2021, pp. 1114-1121, ISSN: 2302-9285, DOI: 10.11591/eei.v10i2.2861.
- Anjali Dalvi, Mohd. Ali Ansari, Anjali Tiwari, Rutuja Sonavane, **Aarti Bakshi**, “Voice Automation and Security Using Raspberry Pi 3,” International Journal of Advanced Research in Science, Communication and Technology, Volume 4, Issue 2, April 2021, ISSN (Online) 2581-9429.
- **Aarti Bakshi**, Danish Sheikh, Yasmin Ansar, Chetan Sharma, Harishchandra Naik, “Pose Estimate Based Yoga Instructor,” International Journal of Recent Advances in Multidisciplinary Topics, Volume 2, Issue 2, February 2021, <https://www.ijramt.com> | ISSN (Online): 2582-7839.
- Abhishek Prajapati, Mayuresh Rane, Manish Rajesh Gupta, Manish Suresh Gupta, **Aarti Bakshi**, “Hand Gestures for Laptop 2.0,” International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, Vol. 9, Issue 4, April 2021, DOI 10.17148/ IJIREEICE. 2021.9429, ISSN (Online) 2321-2004.
- **Aarti Bakshi**, Sunil Kumar Kopparapu, “Feature selection for improving Indian spoken language identification in utterance duration mismatch condition,” Bulletin of Electrical Engineering and Informatics, Vol. 10, No. 5, October 2021, pp. 2578-2587, ISSN: 2302-9285, DOI: 10.11591/eei.v10i5.3173.
- **Aarti Bakshi**, Sunil Kumar Kopparapu, “Improving Indian Spoken-Language Identification by Feature Selection in Duration Mismatch Framework,” SN Computer Science, (2021) 2:442 <https://doi.org/10.1007/42979-021-00750-1>.
- Harshal Chaudhari, **Aarti Bakshi**, “Enhancing Security Performance of Stenographic Imaging Systems Using Improved Hash Lsb And Aes,” DICKENSIAN JOURNAL, Vol.22, Issue 3, March 2022.
- **Aarti Bakshi**, Sunil Kumar Kopparapu, “Duration-Normalized Feature Selection for Indian Spoken Language Identification In Utterance Length Mismatch,” Journal of Engineering Science and Technology, pp. 2120-2134, Vol. 17, No. 3 (2022).
- Rajiv Iyer, **Aarti Bakshi**, “Jewel Beetle-Batteryless WSN Eco Monitoring System," Intelligent Systems and Human Machine Collaboration. Lecture Notes in Electrical Engineering, Springer Nature Singapor, pp. 233-244, Vol. 985(2023)

Conferences (International)

- **Aarti Bakshi**, “Text Independent Speaker Recognition with Polynomial Classifiers”, International conference ‘ICWET 2010,’ 26-27 Feb 2010 , Thakur College of Engineering And Technology, Mumbai.
- **Aarti Bakshi**, “Speaker Recognition with Statistical Analysis Method”, International conference ‘ICWET 2011,’ 25-26 Feb 2011 , Thakur College Of Engineering And Technology, Mumbai
- Shraddha Bhandavle, Rasika Inamdar, **Aarti Bakshi**, “Emotion Based Speaker Recognition with Vector Quantization”, international conference “ICONECT’14,” 15 March 2014, in International Journal of Computer Applications ,ISBN: 973-93-80881-70-8
- **Aarti Bakshi**, Sunilkumar Kopparapu, Sanjay Pawar, Shikha Nema, “Novel Windowing Technique of MFCC for Speaker Identification with Modified Polynomial Classifiers,” International IEEE conference “CONFLUENCE-2014” , 25-26 Sept 2014 at AMITY School of Engineering & Technology, Utter Pradesh with ISBN 978-1-4799-4237-4, page no.292-297 at IEEE Xplore.
- **Aarti Bakshi**, Sunilkumar Kopparapu, “Spoken Indian Language Classification using Artificial Neural Network – An Experimental Study,” International IEEE conference “SPIN-2017” on dated 2-3 Feb 2017, AMITY School of Engineering & Technology, Utter Pradesh, Electronic ISBN: 978-1-5090-2797-2.Print on Demand (PoD) ISBN: 978-1-5090-2798-9, Pages: 424-430, Year 2017
- Sheetal Vaturi, **Aarti Bakshi**, Tanvi Thakur, “Green house by using IOT and cloud computing,” 2016 IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), Electronic ISBN: 978-1-5090-0774-5, Print on Demand (PoD) ISBN: 978-1-5090-0775-2, Pages: 246 – 250, 20-21 May 2016, Bangalore.
- **Aarti Bakshi** “Antroid Voice Bots,” in International Conference on Emanations in Modern Technology and Engineering [ICEMTE- 2017] dated 4-5 March 2017 at L.R Tiwari College of Engineering, Mira Road
- **Aarti Bakshi**, Sunilkumar Kopparapu “Spoken Indian Language Classification using ANN and Multi-class SVM,” in International IEEE conference “ICACCT” on dated 8-9 Feb 2018 at Amrutvahini College of Engineering , Sangamner, Ahmednagar, Maharashtra.
- **Aarti Bakshi**, Sunilkumar Kopparapu “Spoken Indian Language Classification using supervectors and Artificial Neural Networks,” in International IEEE conference “IBSCC-2019” on dated 26-28 July 2019 at, IEEE Bombay Section, IITB, Powai, Maharashtra.

Conferences and Journals (National)

- **Aarti Bakshi**, “An Overview of Seamless Handoff with Mobile IP”, national level conference on Computing, Communication & Electronica, 8-9 2008,College of Engineering and Information Technology, Jalgaon
- **Aarti Bakshi**, “Speaker recognition system with Polynomial Classifiers”, national level conference on Signal Processing, 5-6 March 2009 , MIT, Aurangabad
- **Aarti Bakshi** “Speaker Recognition System”, 29-31 Dec 2009, national level conference RTCE-09 at Sinhgad College of Engineering, Pune
- Amarja Adgaonkar, **Aarti Bakshi** “A review paper on introduction to M-Commerce”, national level conference ‘TECHMEET’10, 4-5 March 2010, J.T. Mahajan College of Engineering, Jalgaon

- **Aarti Bakshi** “Text Independent Speaker Recognition System”, 11 March 2011, national level conference on Emerging Trends in Engineering & Technology, L.R Tiwari college of Engineering, Thane.

STTPs, FDPs, Workshop, Seminar, and Courses attended

- STTP on “Recent Trends in Digital Image Processing,” 31 Dec- 11 Jan 2007, Don Bosco Institute of Technology, Kurla.
- FTP on “High Impact Teaching Skill,” Misson10x, Shivajirao Jondhale College of Engineering, Dombivali.
- STTP on “Wireless Communication and Networking,” 13-17 July 2009, K.J. Somaiya Institute of Engineering and Information Technology, Sion.
- STTP on “Networks & Internet Security,” 23-27 Nov 2009, K.J. Somaiya Institute of Engineering and Information Technology, Sion.
- STTP on “Mobile Computing,” 31 May -4 June 2010, K.C. College of Engineering and Management Studies and Research, Thane.
- STTP on “Advancement in Electronics & Telecommunication Technologies,” 17-21 June 2013, K.C. College of Engineering & Management Studies & Research, Thane.
- STTP on “Faculty Development”, 24-29 Dec 2012, Shri L.R Tiwari College of Engineering, Mira Road.
- Summer School on “Speech Signal Processing- Speaker and Language Recognition,” 8-12 July 2017, Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, Gujarat.
- AICTE-ISTE approved FDP on “Design of Internet of Things & Microwave Circuits & System,” 16-22 Dec 2017, K.C College of Engineering & Management Studies & Research, Thane.
- Summer School on “Speech Signal Processing- Speech Production,” 9-11 Sept 2018, Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, Gujarat.
- STTP on “Blockchain and Its Applications,” 02-07 Jan 2020, K.C College of Engineering and Management Studies and Research, Thane.
- Online FDP on “Scilab, ” 04-09 May 2020, Spoken Tutorial Project, Indian Institute of Technology in collaboration with S.B Jain Institute of Technology, Management & Research, Jalgaon.
- Online FDP on “Research, Funding Projects & IPR,” 07-08 May 2021 May 2020, K.C College of Engineering and Management Studies and Research, Thane.
- Online FDP on “Opportunities and Challenges in Electronics & Allied Industries in India post COVID-19,” 25-30 May 2020, Vivekanand Education Society’s Institute of Technology, Mumbai.
- Online Staff Development Program on “Computer Hardware & Networking, Advance Tools & Advance Excel,” on 27-28 July 2020, Vivekanand Education Society’s Institute of Technology, Mumbai.
- Online STTP on “VLSI Design from Basic to Advance,” 25-30 Jan 2021, K.C College of Engineering and Management Studies and Research, Thane.
- Online STTP on “Artificial Intelligence and Machine Learning,” 11-17 Jan 2021, Engineering College Banswara.
- Online STTP on “VLSI Design from Basic to Advance, ” 25-30 Jan 2021, VLSI Learning Centre of Electronics & Telecommunication Department under the banner of IETE in association with CADENCE DESIGN SYSTEM and NXP SOLUTIONS, K. C. College of Engineering and Management Studies and Research.

- AICTE Approved online STTP on “NBA Accreditation and Processes,” 8-12 Feb 2021, Mechanical Engineering Department, NIT, Agartala.
- AICTE-ISTE approved Orientation/Refresher Program, “Opportunity, Challenges and Research Trends in WC (Wireless Communication),” 23-29 April 2021, Guru Nanak Institutions Technical Campus, Hyderabad, Telangana.
- Online FPD on, “Industry 4.0,” 20-21 May 2021, Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering, Nasik.
- AICTE-ISTE approved Orientation/Refresher Program, “Machine Learning and its Applications,” 24-28 May 2021, R. C. Patel Institute of Technology, Shirpur, Maharashtra.
- Online FPD on, “Ways to find deterrent against research plagiarism through Turnitin,” 7 June 2021, Bharathi Vidyapeeth Institute of Management Studies and Research.
- Online FPD on, “Research Funding Projects and IPR (Part II),” 7-9 June 2021, R & D cell, IQAC and Department of EXTC, Computers, & IT of K. C. College of Engineering & Management Studies & Research.
- Online STTP on, “Embedded System Design,” 14-19 June 2021, VLSI Learning Centre of Electronics & Telecommunication Department in association with IETE of K. C. College of Engineering and Management Studies and Research.
- Online FDP on, “IoT and Cloud Computing,” 17-19 June 2021, Department of Computer Science of K. C. College of Engineering and Management Studies and Research.
- Online FDP on, “Recent trends and advances of next generation 5G Technologies,” 17-19 June 2021, Lokmanya Tilak College of Engineering.
- Online STTP on, “Development, Modelling and Simulation of Electric Vehicle and Its Charging Station using Typhoon Hil (Industry Oriented),” 10-15 Jan 2022, Anjuman-I-Islam’s Kalsekar Technical Campus, New Panvel, Navi Mumbai.
- ATAL- online FDP on, “Machine Learning Applications on Image Processing,” 17-21 Jan 2022, Nagarjuna College of Engineering and Technology.
- Virtual Training Program on, “Data Science,” 7-11 Feb 2022, Pravin Patil College of Diploma
 - Engineering and Technology in Collaboration with ExcelR Solutions.
- Workshop on “Digital Signal Processing,” 1 Oct 2005, Thodomal Shahani Engineering College, Bandra.
- National level workshop on “Digital Signal Processing & its Applications Communication, Control and Biomedical Engineering,” 3-7 July 2006, Ramrao Adik Institute of Technology, Navi Mumbai.
- Seminar on “Emerging Trends in Image Processing and Compression,” 2 Feb 2008, K.C college of Engineering.
- Workshop on “MATH Tools for Engineers,” 31 March 2012, K.C college of Engineering and Management Studies and Research.
- Workshop on “NBA Work,” Rajiv Gandhi College of Engineering, Mumbai.
- Workshop on “Latex and Xfig,” 21 Sept 2013, Usha Mittal Institute of Technology, Santacruz, Mumbai.
- Seminar on “HOD Meet 2016,” 21 Dec 2016, Thakur College of Engineering and Technology
- Workshop on “Machine learning and its Applications,” 14-15 Sept 2017, L.T College of Engineering
- Workshop on “Innovative Practices in Teaching & Learning,” 19-20 Jan 2018, Shah and Anchor Kutchhi Engineering College.
- Seminar on “Machine Learning using Python,” 9 May 2020, Pantech Solution.
- Seminar on “Machine leaning and Artificial Intelligence,” 23-27 May 2020, Saradar Patel Institute of Technology- IEEE Bombay Section.

- Seminar on “Introduction to Ph.D. & Research,” 16 April 2021, SMSMP Institute of Technology & Research, Shankarnagar-Akluj in association with Ignited Universe Pvt. Ltd.
- Seminar on “Use of Communication Networks in Industry,” 12 May 2021, Sinhgad Institute of Technology, Lonavala.
- Seminar on “Intellectual Property Rights and IP managements for startup,” 16 May 2021, K.J Somaiya Institute of Engineering and Information Technology.
- Seminar on “Research Opportunities in Biomedical,” 20 May 2021, Hindustan Institute of Technology.
- Seminar on “Wireless Communication System Design Using MATLAB & SIMULINK,” 3 June 2021, AISSMS College of Engineering, Pune in association with AISSMS COE IEEE Student Branch.
- Workshop on “Source of Research Grants and Art of Writing a Research Paper,” 3 June 2021, R L Jalappa Institute of Technology, Kolar.
- NPTEL online certification course on - Soft Skill Development Program.
- NPTEL online certification course on -Outcome Based Pedagogic Principles of Effective Teaching.
- IITBombayX: National Mission for Teachers Teaching on -Foundation Programme for ICT in Education (FDP101x).
- Coursera -twelve weeks certification course on -Image and Video Processing: From Mars to Hollywood with a Stop at the Hospital.
- CISCO- six weeks certification course on - Introduction to IoT.
- CISCO- six weeks certification course on - Introduction to Cybersecurity.
- GUVI- certification course on - Interview Toolkit for Fresher.
- GUVI- certification course on - Game Development Using Pygame.
- CISCO- eighteen weeks certification course on - NDG Linux Essentials.

Speaker/ Reviewer/ Session Chair:

- Guest Lectures for M.E (Electronic & Communication) students for subject ‘Speech Processing’ in UMIT
- Speaker and content setter for one day workshop on “Latex.”
- Reviewer for International Conference on “Advances in Science, Technology and Engineering (ICASTe-2018)”, A. P Shah Institute of Technology, Thane.
- Reviewer for International Journal of Creative Thoughts.
- Sub Reviewer for 9th International Conference on “Speech Prosody.”
- Reviewer for Elsevier Psychiatry Research.
- Session Chair for National Conference on “Emerging Trends in Engineering & Technology”, Shree L.R Tiwari College of Engineering, Mira Road
- Judge for Technical paper presentation for IEEE 360 Degrees, Intercollegiate Technical Symposium.
- Content setter for subject course file for NBA.
- Speaker for one day workshop on “LaTex,” 11 Jan 2019, Data Meghe College of Engineering, Airoli, Navi Mumbai.
- Judge for National Level COVID-19- Hardware Hackathon-2020 at K.C College of Engineering and Management Studies and Research.
- Reviewer for International Conference on Communication, Information and Computing Technology, 2021, IEEE Bombay Section.

- Speaker for two day workshop on “Latex for Scientific Learning,” 3-4 Sept 2021, HITAM, Hyderabad, Telangana.
- Reviewer for International Conference on “Communication, Information and Computing Technology, 2021”, Sardar Patel Institute of Technology, Mumbai.
- Reviewer for International Journal “SN Computer Science,”- Springer
- Reviewer IEEE International Conference on “Networks, Multimedia and Information Technology (NMITCON),” Nitte Meenakshi Institute of Technology, Bengaluru, INDIA

STTPs, FDPs, Workshop, Seminar, Conferences organized

- Convener for two days’ workshop on ‘Linux Apache Mysql & Php’ (2009-10).
- Convener for ISTE approved STTP on ‘Wireless Networks & Security’ (2010-11).
- Convener for ISTE & KCCOE IEEE approved a State Level Project Competition ‘X-zibit2013’ (2012-13).
- Convener for ISTE & KCCOE IEEE approved two days’ workshop on ‘Open Source Software’ (2012-13).
- Convener for KCCOE IEEE approved two days’ workshop on ‘RUBY: Web Development Tool’ (2013-14).
- Convener for ISTE approved one day orientation program on ‘Web Programming’ (2013-14).
- Convener for KCCOE IEEE approved two days’ workshop on ‘Embedded System and Microcontroller’ (2014-15).
- Convener for KCCOE IEEE approved two days’ workshop on ‘Cloud Computing’ (2014-15).
- Convener for KCCOE IEEE approved Two days’ Workshop on ‘Electrobotics’ (2014-15).
- Chief Convener for ISTE approved two weeks STTP on ‘Hands On: Advanced Computational Tools’ (2014-15).
- Convener for two days’ workshop on ‘Advanced Java’ (2016-17).
- Coordinator for one day workshop on ‘Research & Development and Intellectual Property Rights’ (2018-19).
- Coordinator for three days FDP on ‘Research, Funding Projects and IPR’ (2019-20).
- Coordinator for three days FDP on ‘Research Funding Projects and IPR (Part II)’ (2020-21).

Talk Delivered

- Talk on “LaTeX Documentation Software” for BE EXTC VII 2022-23 Batch of K.C College of Engineering and Management Studies and Research, Mumbai (2February 2023).
- Talk on “Latex for Scientific Learning” Online Two Days Workshop conducted by Hyderabad Institute of Technology and Management (3-4 September, 2021).
- Talk on “LaTeX Documentation Software” for BE EXTC VII 2021-22 Batch of K.C College of Engineering and Management Studies and Research, Mumbai (24 April, 2021).
- Talk on “LaTeX” for BE EXTC VII 2019-2020 Batch of K.C College of Engineering and Management Studies and Research, Mumbai (16 October, 2019).

- Talk on “Latex” One Day Workshop conducted by Datta Meghe College of Engineering, Navi Mumbai. (11 January, 2019).
- Talk on “LaTeX Documentation Software” for BE EXTC VII 2018-19 Batch of K.C College of Engineering and Management Studies and Research, Mumbai (28 September, 2018).
- Conducted Guest Lectures for M.E III (Electronics & Communication) students for subject 'Speech Processing' in Usha Mittal Institute of Technology, Mumbai.

Subjects taught at Engineering Degree

- Digital Signal Processing
- Discrete Time Signal Processing
- Digital Signal and Image Processing
- Image Processing and Machine Vision
- Image and Video Processing
- Principal of Communication
- Digital Communication
- Speech Processing
- Artificial Neural Network and Fuzzy Logic
- Machine Learning
- Data Structure and Algorithm