CURRICULUM VITAE

Dr. Vaishali Rama Wadhe
Professor,
Department of Electronics Engineering/Artificial Intelligence & Data Science
Dean-Industry & Institute Interaction Cell,
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CAREER OBJECTIVE

To work for the organization of technical education to develop quality-based system of technical education where excellence in engineering education is of society and market needs.

PROFESSIONAL STRENTHS

- Possesses excellent logical and critical thinking
- Possesses good management and communication skills
- Ability to solve issues in a quick and efficient manner
- Have good leadership and management skills
- In-depth knowledge of tools and techniques for effective teaching and learning activities
- Good motivator and ability to handle multiple tasks
- Determined and goal oriented

ACADEMIC PROFILE

Degree	**Ph.D. (Computer Engineering)**
Domain	Cloud Computing
Topic	Study of Cloud Computing, It's Implementation, Applications and Security
Institution	Shri. JagdishPrasad Jhabarmal Tibrewala University, Rajasthan
University	Shri. JagdishPrasad Jhabarmal Tibrewala University, Rajasthan
Year of Award	2014-2015
Degree	**Master of Engineering (M.E.)**
Branch	Electronics Engineering
Percentage	**60.13%**
Year of Passing	Oct'2008
Institution	Government College of Engineering, Aurangabad
University	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
Degree	**Bachelor of Engineering (B.E.)**
Branch	Electronics & Telecommunication Engineering
Percentage	**60.13%**
Year of Passing	Jun'2001
Institution	Gangamai College of Engineering, Dhule, Maharashtra
University	North Maharashtra University, Jalgaon
Examination	**Diploma in Computer Engineering (DCE)**

Percentage	**60.59%**
Year Of Passing	Jun'1998
Institution	Government Polytechnic, Jalgaon
University	Maharashtra State- Board of Technical Education, Mumbai
Examination	**Higher Secondary School Certificate (HSC)**
Percentage	**54.00%**
Year Of Passing	Mar'1995
Institution	Sardar G. G. Junior College, Raver, Dist: Jalgaon, Maharashtra
University	Maharashtra State Board of Secondary & Higher Secondary Education, Nashik
Examination	**Secondary School Certificate (SSC)**
Percentage	**80.28%**
Year of Passing	May' 1993
Institution	Satkar Vidya Mandir, Atrawal, Dist: Jalgaon, Maharashtra
University	Maharashtra State Board Secondary & Higher Secondary Education, Pune

WORK EXPERIENCE

- **Teaching Total =20.5 years, Approved by University of Mumbai**
- **Professor** (Approved under CAS)
  From July 2021 till date
  K. J. Somaiya Institute of Technology, Sion, Mumbai
- **Associate Professor** (Approved)
  From August 16, 2018 To July 2021
  K. J. Somaiya Institute of Engineering & Information Technology, Sion, Mumbai
- **Assistant Professor** (Approved)
  From: 01st Jan 2005 To 15th August 2018 (13.6 years)
  K. J. Somaiya Institute of Engineering & Information Technology, Sion, Mumbai
- **Dean, Industry Institute Interaction Cell**
  From Dec-2018 till date
  K. J. Somaiya Institute of Technology, Sion, Mumbai
- **Lecturer** (Contractual Basis)
  From: 30th Oct 2003 - 31st Dec 2004 (1 year 2 Months)
  Government Polytechnic, Mumbai
- **ME Approved** Guide for Electronics & Telecommunication Engineering for University of Mumbai.

RESPONSIBILITIES, ROLES & ACHIEVEMENTS

SUBJECTS TAUGHT (Undergraduate Level)

1) Analysis of Algorithm
2) Artificial Intelligence
3) Big Data Analytics
4) Cloud Computing
5) C Programming
6) Java Programming
7) Adhoc Wireless Networks
8) Optical Fiber Communication
9) Digital Electronics
10) Electronics Measurement & Instrumentation
11) Power Electronics
12) Basics of Electrical & Electronics Engineering

13) Computer Communication Networks
14) Telecommunication Networks & Managements

RESEARCH PROJECT and GRANTS: 03

1. **"Tree Climbing Coconut Plucker"**, at University of Mumbai**.** Sanctioned a grant of Rs. 35000/- by University of Mumbai for the Academic Year 2016-17.

2. **"Word Based Text To Speech Synthesis"** Sanctioned a grant of Rs. 33000/- by University of Mumbai for the Academic Year 2007-08.

3. **"Mumbai Farming"**, Project of approved by Women4Climate of BruhanMumbai Municipal Corporation (BMC) jointly with C40 which is an international Organization.

4. **"CoCo Plucker"**, designed for Widyaarjan LLP during Year 2019-20.

5. **"Autonomous Pesticide Sprayer"**, designed for Widyaarjan LLP during Year 2019-20.

6. **"Consultancy Product of "Donor Receipt Generation"**, designed for Social Activities Integration- SAI organization at Byculla, Mumbai. Product is deployed successfully in June 2024. The Grant Amount of Rs. 29000/- is in process of reimbursement.

7. **"Google Analytics Implementation and Website Development for *Madhuban Eco Retreat*, a flagship sustainability-driven hospitality initiative of the *Somaiya Group"***, during March 2025-October, 2025. This project served as a live industry–academia consultancy and student experiential learning model, aligning with Outcome-Based Education (OBE) and Industry 4.0 practices.

PATENT: 05

1. Filled and Published Permanent Complete National Patent "**Energy Consumption Prediction and Alert Generation Using Deep Learning**". Application No: 202241007336. Patent published at Indian Patent Journal, 2022. Published Date: 25/02/2022.

2. Filled and Published Permanent Complete National Patent "**Deep Learning Model for Prediction of Cancer with Stage Level Varying Parameters and Analysis of Gen**". Application No: 202241008120. Patent published at Indian Patent Journal, 2022. Published Date: 04/03/2022.

3. Filled and Published Permanent Complete National Patent "**Monitoring and Alerting of Illegal Deforestation Using Internet of Things and Drones**". Application No: 202241010623. Patent published at Indian Patent Journal, 2022. Published Date: 11/03/2022.

4. Filled and Published Permanent Complete National Patent "**Soil and Plant Health Assisting Using Machine Learning**". Application No: 202241023753. Patent published at Indian Patent Journal, 2022. Published Date: 13/05/2022.

5. Filled and Published Permanent Complete National Patent "**Assessment of Field Agricultural Management Conditions Through Categorization With Pattern Recognition**". Application No: 202341027910. Patent published at Indian Patent Journal, 2022. Published Date: 05/05/2023.

1. The "**Chairman's Award For Outstanding Faculty Publications"** by The Somaiya Trust during **First Foundation Day** of Somaiya Management, on 9th September-2014.

2. The **"Women Researcher Award"** in the International Scientist Awards on Engineering, Science and Medicine by VDGOOD Professional Association 06-Feb-2021 in Coimbatore, India.

3. Received an Award of "**Rajyasthariya Guru Gaurav Shikshak Sanman Puraskar-2021"**, by Manushyabal Vikas Lok Seva Academy.

4. State level award of **"Star Maharashtra Award-2018**" awarded by Star Maharashtra News Paper, in the hands of Shri. Ramdas Athawale, Central Minister of State for Social Justice & Empowerment, Government of India, on 18th December 2018

5. State level award of **"Samaj Ratna"** awarded by Mantraalaya Vartaa, Mantraalaya, Maharashtra State at the hands of Shri. R. R. Patil, Home Minister, Government of Maharashtra, on 6th September 2007

6. State level award of **"Samaj Bhushan"** awarded by Beldar Samaj Seva Sangh, Nashik, Maharashtra, on August 2007 for taking initiative in working towards the welfare of under privileged, downtrodden and weaker sections of the society.

7. State Level **"Ideal Teacher Mumbai Award2024"** by Swarajya Welfare Association jointly with Project 100, New Delhi, an International Organization, on 30th March 2024.

8. Was invited as **Key Note Speaker** for the topic **"Digital India"** for the two days conference on "Make in India, Make in Maharashtra" held during 21, 22 November 2015 organized by Businessmen's Association of Maharashtra at Rambhau Mhalgi Prabodhini, Uttan Bhayandar, Maharashtra.

9. Awarded as **"The Corona Warrior"** in July 2020 by **Canada-India Foundation, Toronto, Canada** and Hello Mumbai News.

10. Felicitated as **"The Corona Warrior"**, in hands of Mr. Lutfor Rehman, **Deputy High Commissioner of Bangladesh** and Smt. Zakia Wardak, Consul General of Afghanistan in Mumbai. For imparting knowledge in Technical Education among students of other countries.

11. Was interviewed by **"Hello Mumbai News Channel"** for arranging Internship with Foreign University during Covid 19 Pandemic on 20/06/2020 by Hello Mumbai News Channel.

12. **KJSIEIT** has received **"PLATINUM"** Award under the AICTE-CII Survey by All India Council of Technical Education for the Year- 2019, Year- 2020 wherein contributed as Dean, Industry & Institute Interaction Cell.

13. Was one of a **Guest speaker** for National Level Conference on: "**Changed Education Policy of Hindustaan Government**" on 11/08/2020 organized by Trans Asian Chamber of Commerce & Industry

- **Book Publication**

"**Cloud Computing**" bearing ISBN 978-3-639-71565-1 has been published and is been commercialized worldwide. It is internationally published by Scholar's Press. Scholars' Press is a trademark of OmniScriptum GmbH & Co. KG, Heinrich-Böcking-

Str. 6-8, 66121, Saarbrücken, Germany. In Germany, its price is €89.90 (Euro). It is available on Amazon.com for $138. The cover page of the book is available on the following link: https://www.scholars-press.com/system/covergenerator/build/2456

TECHNICAL PUBLICATIONS (International Journals: 20)

1. Wadhe, V. and Bharadi, V. (2014). **Review on Existing Cloud Platforms**. International Journal of Applied Information Systems, Foundation of Computer Science, New York, USA, Volume 6, Issue 8, pp. 21-26, ISSN 2249-0868 (Impact Factor: 10.5120).

2. Wadhe, V. and Bharadi, V. (2014). **Security Aspect of Cloud Computing**. International Journal of Scientific & Engineering Research, Volume 5, Issue 1, pp. 106-112. ISSN 2229-5518 (Impact Factor: 5.27).

3. Wadhe, V. and Bharadi, V. (2013). **Review: Services and Applications of Cloud Computing**. International Journal of Scientific & Engineering Research, Volume 4, Issue 12, pp. 979-984. ISSN 2229-5518 (Impact Factor: 5.27).

4. Wadhe, V. and Bharadi, V. (2013). **Cloud Computing and Its Challenges**. Centum, Multi- Disciplinary Bi-Annual Research Journal, Volume 6, Issue 6, pp. 328-332. ISSN 2231- 14775 (Impact Factor: 9.27).

5. Wadhe, V. (2016). **Future and Scope of Cloud Computing in India**. Elixer peer-reviewed Independent International Journal. ISSN 2229-712X. Elixir Comp Engg. 93 (2016) 39561-39563. Current Index Copernicus, Poland Value (ICV) is 80.82, Scored Publication Impact Factor (PIF) of 6.025.

6. Wadhe, V. et.al. (2014). **Microprocessor Smart Cards for Centralizing Fare Collection in Public Services**. International Journal of Advanced Research in Computer Science and Electronics Engineering (IJARCSEE), Volume 3, Issue 3, 2014. ISSN: 2277-9043.

7. Wadhe, V. (2016). et.al. **Disaster Rescue Robot**. International Journal of Electrical and Electronics Research (IJEER). Volume 4, Issue 1. ISSN 2348-6988.

8. Wadhe, V. (2007). **A Direct Approach for Speech-To-Speech Translation**. Journal of Emerging Technologies, Volume 2. ISSN No.: 0973-2993. (Impact Factor: 2.084)

9. Wadhe, V., Siddhesh, P, et al. (2018). **Autonomous Weeding Boat**. 2018. Advances in Computational Sciences and Technology (ACST). ISSN 0973-6107. Vol. 11. No.1.

10. Wadhe, V., Kapadia, T., et al. (2018). **GSM Location Spotify and Path Planning for Blind Using Ultrasonic**. Advances in Wireless and Mobile Communications (AWMC). ISSN 09373-6972. Vol. 11, No.1 (2018)

11. Wadhe, V., Rathi, S., et al. (2018). **RFID Based Security System Using SMART Card**. Advances in Computational Sciences and Technology (ACST). ISSN 0973-6107. Vol. 11. No.1 (2018)

12. Wadhe V. (2019). **Tree Climbing Coconut Plucker**. International Journal of Engineering, Applied and Management Sciences Paradigms (IJEAM). ISSN 2320-6608. Vol. 54 Issue 1.

13. Wadhe V. Robonomics AI Pvt. Ltd., et al. (2019). **Data Extraction Techniques for Data on Different Environment: A Review**. International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET). ISSN (Online): 2319-8753. ISSN (Print): 2347-6710. Vol. 8. Issue 5.

14. Wadhe, Vaishali. Thaigrajan, R., et. al. (2022). **Cancer Prediction using RNA Sequencing and Machine Learning.** NeuroQuantology. Volume 20. Issue 10. Page 1729-1734. doi: 10.14704/nq.2022.20.10.NQ55156.

15. Wadhe, Vaishali. Thaigrajan, R., et. al. (2022). **Brain Damage Detection using Machine Learning Approach.** NeuroQuantology. Volume 20. Issue 10. Page 2818-2824. doi: 10.14704/nq.2022.20.10.NQ55156.

16. Wadhe, Vaishali. Limbachia Janak., et. al. (2023). **Role of Neural Networks and Cookies using AI in Data Privacy policies.** International Journal of Novel Research and Development (IJNRD). Volume 8 Issue 4. Page 255-258. ISSN: 2456-4184.

17. Wadhe, Vaishali. Dongre, Rashami., et. al. (2022). **Sugarcane Disease Detection using Deep Learning**, 5th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2022, pp. 40-44, doi: 10.1109/ICAST55766.2022.10039670. **Date Added to IEEE Xplore:** 13 February 2023.

18. Wadhe, Vaishali. Maheshwari, Aryan., et. al. (2024). **Role of AI in Developing Various Industries**. Journal of Emerging Technologies and Innovative Research (JETIR). Volume 11. Issue 2. pp. 516-520. ISSN: 2349-5162.

19. Wadhe, Vaishali; Wala, Humzah. (2024). **Sales Department Dashboard on MERN.** Journal of Emerging Technologies and Innovative Research (JETIR). Volume 11. Issue 1. pp. 597-600. ISSN: 2349-5162.

20. Wadhe, Vaishali. Senjalia, Meet. et. al. (2024). **Crop Recommendation Using IoT and ML.** International Journal of Scientific Research in Engineering and Management (IJSREM). Volume: 08 Issue: 02. Pp. 1-6. SSN: 2582-3930.

TECHNICAL PUBLICATION (International Conferences: 10)

1. Wadhe, V. and Bhalchandra, A. (2007). **Direct Approach for Speech-To-Speech Translation**". 2nd International Conference on Emerging Adaptive Systems and Technologies. Noorul Islam college of Engineering, Kumaracoil, Thuckalay, Kanyakumari, Dist: Tamilnadu.

2. Wadhe, V. (2007). **Applications of Advanced Technologies in Medical Healthcare Centers**. International conference on Nanotechnology & Healthcare Applications. IIT Bombay.

3. Wadhe, V. (2009). **Text to Speech Synthesis for Guajarati Language**. International conference on Communication. Charutal Vidya Mandal's G. H. Patel college of Engineering, Anand, Gujrat.

4. Wadhe, V. and Bharadi, V. (2013). **Cloud Computing: An Introduction**. International Conference on Advance Computing (ICWAC-2013). Thakur College of Engineering and Technology, Mumbai. Volume 3, pp. 128-131. ISBN 978-0-9884925-2-3.

5. Wadhe, V., Siddhesh, P, et al. **Autonomous Weeding Boat**. (2018). Advances in Computational Sciences and Technology (ACST). ISSN 0973-6107. Vol. 11. No.1 (2018)

6. Wadhe, V., Kapadia, T., et al. **GSM Location Spotify and Path Planning for Blind Using Ultrasonic**. 2018. Advances in Wireless and Mobile Communications (AWMC). ISSN09373-6972. Vol. 11, No.1 (2018)

7. Wadhe, V., Rathi, S., et al. 2018. **RFID Based Security System Using SMART Card**. Advances in Computational Sciences and Technology (ACST). ISSN 0973-6107. Vol. 11. No.1 (2018)

8. Wadhe, Vaishali and Khamgaonkar, Kalyani., et al. (2020). **IOT Based Patient Monitoring and Intelligent Medicine Dispensing System.** SSRN- Elsevier's online digital publication under 3rd International Conference on Advances in Science & Technology-ICAST-2020 conference proceeding & e-Journal, issue-August' 2020.

9. Wadhe, Vaishali. Shah, Sejal., et. al. (2023). **AI Revolutions in Agriculture of India.** 6th International Conference on Advances in Science and Technology (ICAST). K J Somaiya Institute of Technology with University of Mumbai. December 8-9, 2023.

10. Wadhe, Vaishali. Parekh, Vraj., et. al. (2023). **Somaiya's Tutorial: An Online Education Portal.** 6th International Conference on Advances in Science and Technology (ICAST). K J Somaiya Institute of Technology with University of Mumbai. December 8-9, 2023.

TECHNICAL PUBLICATION (National Conferences: 09)

1. Wadhe, V. and Bhalchandra, A. (2005). **Text-To-Speech Synthesis**. National Conference at Shreenidhi Institute of Science and Technology, Ghatkesar, Hyderabad. (A.P).

2. Wadhe, V. and Bhalchandra, A. (2006). **Synthesis of Unseen Context, Spectra and Pitch Contour in Concatenated Text-To-Speech Synthesis**. National Conference at Government Engineering College, Aurangabad. (M.S).

3. Wadhe, V. and Bhalchandra, A. (2006). **Text-To-Speech Synthesis for Hindi Language**. National Conference at KCE's college of Engineering and Information Technology, Jalgaon. (M.S).

4. Wadhe, V. and Bhalchandra, A. (2006). **Text-To-Speech Synthesis for Marathi Language**. National Conference at SRES's college of Engineering, Kopargaon. (M.S).

5. Wadhe, V. and Bhalchandra A. (2006). **Duration Modeling for Hindi Text-To-Speech Synthesis System**. National Conference at Pandharpur College of Engineering, Pandharpur (M.S).

6. Wadhe V. (2012). **Recent Trends and Issues in Engineering Curriculum and Industry Needs**. National Conference at Government College of Engineering, Jalgaon, Maharashtra.

7. Wadhe, V. (2015). Marathi article "**Online Vikrichee SaptPadee**" Published in the Diwali special edition of the magazine SMART UDYOJAK (RNI Registration No.: MAHMAR/2015/64164). The article was under the topic Internet and Business.

8. Wadhe, V. (2014). **The Spirit of Collaboration**. Maitri, International Business Cultural Digest. Published by Trans Asian Chamber of Commerce and Industries.

9. Wadhe, V. (2017). **Sustainable Development**. Maitri, International Business Cultural Digest. Published by Trans Asian Chamber of Commerce and Industries.

PROJECTS COMPLETED

- Tree Climbing Coconut Pluker
- Autonomous Pesticide Sprayer
- Co-Copter
- IOT Based Patient Monitoring and Intelligent Medicine Dispensing System
- Implementation of Wireless Reader using Raspberry Pi for Blind Person
- Disease Identification in Sugarcane by Deep Learning and Machine Learning
- Pesticide Spraying Drone for Sugarcane Farming
- Consultancy Product of "Donar Receipt Generation"

MEMBERSHIPS

- Chairperson of Education Committee, Trans Asian Chamber of Commerce & Industry (TACCI)
- Fellow Member of Institution for Electronics and Telecommunication Engineers(IETE)
- Life Member, Indo American Society (IAS)
- Life Member, Indian Society for Technical Education (ISTE)
- Life Member, National Center for Science Communicators(NCSC)
- Life Member, Environmental Club of India

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