

## CURRICULUM VITAE

**Dr. Amit JaykumarChinchawade**

### PERSONAL DETAILS:

- **Date of Birth** :06/12/1982.
- **Gender:** Male.
- **Mobile:**9970700801.
- **Email:**[amitchinchawade@gmail.com](mailto:amitchinchawade@gmail.com)
- **Postal Address:**Sr. No. 90, Datta Nagar, Karanal Road, Sangli.  
Maharashtra. Pin Code- 416416.



### TEACHING EXPERIENCE:

Nameofthe Institute	Nameofthe Department	Name of the Post	Duration	
			From	To
Sharad Institute of Technology College of Engineering, Yadrav.	Artificial Intelligence & Data Science Engineering.	Associate Professor & Head of Department	02/2024	Till date
	Electronics & Computer Engineering.	Program Coordinator	07/2023	01/2024
		Academic Coordinator	07/2022	06/2023
Sharad Institute of Technology Polytechnic, Yadrav.	Electronics & Telecommunication Engineering.	Head of Department	01/2018	06/2022
		Lecturer	05/2014	12/2017

### INDUSTRY EXPERIENCE:

Name of the Company	Designation	Duration	
		From	To
AXA Technology Pvt. Ltd., Pune.	Incident Management	02/2012	04/2014
IBM Netsol Pvt. Ltd., Mumbai.	System Engineer	07/2011	02/2012
CMS Infosystems Pvt. Ltd., Mumbai.	Trainee Engineer	08/2010	06/2011

### ACADEMIC QUALIFICATIONS:

#### **Doctor of Philosophy (Ph.D.) in Electronics & Communication Engineering:**

Area of Research : Internet of Things / Internet of Everything Security using Data Science.

University : Suresh Gyan Vihar University, Jaipur.

Thesis Title : Development of Authentication and Security Procedures for IOE Systems.

Duration : January 2018 to July 2022.

#### **Master in Engineering (M.E) in VLSI & Embedded Systems:**

College/University: Shri Ramachandra College of Engineering, Wagholi.  
Savitribai Phule Pune University, Pune.

Project Title : Li-Fi based Home/office automation Systems.

Duration : July 2014 to May 2016.

#### **Bachelor in Engineering (B.E) Electronics & Telecommunication:**

College/University: Rajarambapu Institute of Technology College of Engineering,  
Sakharale (Islampur). Shivaji University, Kolhapur.

Duration : July 2006 to July 2010.

## TECHNICAL SKILLS:

- Programming Languages: Python, Java, C, C++.
- Data Science: NumPy, Pandas, Matplotlib, Seaborn.
- Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forest, Support Vector Machines (SVM), K-Nearest Neighbors (KNN), Naïve Bayes, KMeans Clustering.
- Deep Learning: TensorFlow, Keras, PyTorch, Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN).
- Natural Language Processing: NLTK, SpaCy, Transformers, BERT, Sentence BERT, TF-IDF, Word2Vec.
- Generative AI: Prompt Engineering, OpenAI API, Hugging Face, Fine-Tuning LLMs, RAG, Vector Databases.
- Data Visualization: PowerBI, Matplotlib, Seaborn.
- Tools & Frameworks: Git, Agile (Jenkins/JIRA).

## CERTIFICATIONS:

- Certification in Data Science, Machine Learning, Deep Learning, and NLP using Python.
- Hands-on projects and training covering Python, AI/ML models, NLP applications, and Generative AI.

## AWARDS& ACHIEVEMENTS:

- Worked as **Evaluator** in the **Smart India Hackathon 2023**.
- **Young Researcher Award 2023** from the Institute of Scholars (InSc) International Publisher.
- **Best Teacher Award 2017** from Sharad Institute of Technology Polytechnic, Yadav.

## REVIEWER EXPERIENCE:

1. Reviewer of AICTE Technical Book – Diploma Fourth Semester- Microcontroller and Applications.
2. Program committee in A National Conference on Communication, Image Processing and Computing 15 to 16 December 2023, (NCIPC 2023) Jointly Organized by Electronics, Information Technology and Computer Science Engineering Department Walchand College of Engineering, Sangli, Maharashtra, India-416415.
3. Reviewer in 2nd International Conference on Challenges in Information, Communication and Computing Technology (ICCICCT - 2024), Organized by Department of Computer Science and Engineering at K.S.R. College of Engineering, Tiruchengode, Namakkal, Tamil Nadu, India, during April 26th & 27th, 2024.
4. Reviewer in 2nd International Conference on Mechanics, Electronics, Automation and Automatic Control (MEAAC 2024) June 15-17, 2024 / Ordos, China.
5. Reviewer for the 2024 IEEE International Conference on Intelligent Systems and Advanced Applications (ICISAA), organized by the Dr. D. Y. Patil Institute of Technology, Pune. Held on October 25th and 26th, 2024.
6. Program Committee Member and Reviewer for the 6th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2024), organized by the Madhav Institute of Technology & Science, Gwalior on October 26-27, 2024.
7. Technical Program Committee Member and Reviewer for the prestigious 6th International Conference on Communication and Intelligent Systems (ICCIS 2024), organized by Maulana Azad National Institute of Technology (MANIT), Bhopal, India, and technically sponsored by the Soft Computing Research Society. Held on November 08-09, 2024.
8. Program Committee Member and Reviewer for the Springer- 5th International Conference on Computational Intelligence (ICCI 2024), organized by Sardar Vallabhbhai National Institute of Technology, Surat, India. Held on December 24-26, 2024.
9. Program Committee Member & Reviewer for the 5th International Conference on Paradigms of Communication, Computing, and Data Analytics (PCCDA 2025) organized by Pt. Lalit Mohan Sharma Campus, Rishikesh, Sri Dev Suman Uttarakhand University, India. Held on January 18-19, 2025.

10. Program Committee Member & Reviewer for the International Conference on Information Technology and Artificial Intelligence (ITAI 2025), organized by Gurugram University, Gurgaon. Held on Jan 24-25, 2025.
  11. Program Committee Member & Reviewer for the 3rd Congress on Control, Robotics, and Mechatronics (CRM 2025) organized by SR University, Warangal, India. Held on Feb 1-2, 2025.
  12. Program Committee Member & Reviewer for the 7th International Conference on Communication and Computational Technologies (ICCCT 2025) organized by National Forensic Sciences University, Goa Campus, India & Florida International University, USA. Held on February 14-15, 2025
  13. Program Committee Member & Reviewer for the 2nd World Congress on Smart Computing (WCSC 2025) Organized by Babu Banarasi Das University, Lucknow, India Held on February 22-23, 2025.
  14. Program Committee Member & Reviewer for the 3rd International Conference on Power Engineering and Intelligent Systems (PEIS 2025) Organized by National Institute of Technology, Uttarakhand, India. Held on March 08-09, 2025.
  15. Asian Journal of Agricultural Extension, Economics & Sociology: Reviewed multiple papers.
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#### **EDITOR OF BOOK SERIES:**

- IIP Series Conferences & Edited Books- Book series titled "Futuristic Trends in IOT"- Editor Id - "IIPER1673866239".

#### **RESEARCH PUBLICATIONS:**

1. "A survey on Li-Fi based audio transmission with home/office automation system." International Journal of Engineering Research and General Science, Volume 4, Issue 4, July-August 2016, UGC Indexed.
2. "Li-Fi Based Audio Transmission with Home/Office Automation System." International Journal of Innovative Research in Science, Engineering and Technology, Vol. 5, Issue 7, July 2016, UGC Indexed.
3. "Development of Authentication and Security on IOT Systems." International Journal of Research in Advent Technology (IJRAT), Special Issue, 09-10 March 2018, Web of Science Indexed.
4. "A Review On Authentication and Security Procedures for IOE Systems." Journal of Emerging Technologies and Innovative Research, Volume 6, Issue 6, 2019, UGC Indexed.
5. "Importance and Responsibilities of Internet of Everything (IOE) for Monitoring and Controlling in Smart Agriculture Systems." International Journal of Recent Technology and Engineering (IJRTE), Volume-8, Issue-6, March 2020, Scopus Indexed.
6. "Secure Communication in Internet of Everything (IoE) Based Smart Weather Reporting Systems." Journal of Information and Computational Science, Volume 14, Issue 1, 2021, UGC-CARE Group II.
7. "Security and Privacy Challenges in Internet of Everything (IoE) with Security Requirements." Suresh GyanVihar University Journal of Engineering & Technology, Volume 7, Issue 2-2021.
8. "Deep Learning Model for Predicting Context Information For Authentication." Webology, Volume 18, Number 6, 2021, Scopus Indexed.
9. "Self-Secure Firmware Model for Blockchain-Enabled IOT Environment to Embedded System." European Chemical Bulletin, Volume 12, Special Issue 3 (2023), Scopus Indexed.
10. "IOT-Enabled Smart Irrigation Management and Monitoring System Seamlessly Integrated into Mobile Devices." European Chemical Bulletin, Volume 12, Special Issue 3 (2023), Scopus Indexed.
11. "Coalescing Novel QoS Routing with Fault Tolerance for Improving QoS Parameters in Wireless Ad-Hoc Network Using Craft Protocol." Wireless Networks, The Journal of Mobile Communication, Computation and Information, Issue 8, November 2023, SCI-Springer Nature.

12. "A Review on Performance Enhancement of Deep Learning Based Face Detection System." International Journal of Intelligent Systems And Applications In Engineering, Vol. 12 No. 16s (2024), Scopus Indexed.
  13. "Predicting Violent Crime Hot-Spots Utilizing Machine Learning." African Journal of Biological Sciences, Volume 6, Special Issue 2 (2024), Scopus Indexed.
  14. "Leveraging Big Data Analytics for Enhanced Healthcare: Integration and Impact in the Healthcare Industry." African Journal of Biological Sciences, Volume 6, Issue 5 (2024), Scopus Indexed.
  15. "Developing an Innovative Framework for Generating Unique Aadhaar Cards in India using Python." African Journal of Biological Sciences, Volume 6, Issue 9, 2024, Scopus Indexed.
  16. "A deep learning-based analytical survey on Few Shot Image Dataset Clean." African Journal of Biological Sciences, Volume 6, Issue 12 (2024), Scopus Indexed.
  17. "Enriching Air Quality Index prediction through hybrid neural network." African Journal of Biological Sciences, Volume 6, Issue 12 (2024), Scopus Indexed.
  18. "Secrecy diversity analysis for physical-layer security of Wireless Sensor Networks" Library Progress International Vol.44 No. 3, Jul-Dec 2024: P. 14855-14860, Scopus Indexed.
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#### **CONFERENCE PUBLICATIONS:**

1. "Development of Authentication and Security Procedures for IoT System." National Conference "Advances In Electronics & Communication Devices-AECD 2018", Jaipur, 9th-10th March 2018.
2. "Review on Development of Authentication and Security Procedures for Energy savvy IoT System." International Conference on Materials for Energy Applications ICME-2018, Department of Physics, S.S. Jain Subodh PG (Auto.) College, Jaipur, India, 6th-8th December 2018.
3. "Development of Authentication and Security Procedures for IoT System." 1st International Conference on Advances In Electronics & Communication Devices (AECD-2019), Department Of Electronics & Communication, Suresh GyanVihar University, Jaipur, India, 5th-6th April 2019.
4. "Security Challenges in IOE Systems." National Level Technical Paper Presentation 2019, Bharati Vidyapeeth College of Engineering, Navi Mumbai, 20th Sept. 2019.
5. "Implementation of Internet of Everything (IOE) in Industrial Automation Systems." International Web Conference on Science, Engineering and Technology (IWCSET-2020), Nagpur, India, 15th-16th May 2020.
6. "Authentication Schemes and Security Issues in Internet of Everything (IOE) Systems." IEEE 12th International Conference on Computational Intelligence and Communication Networks (CICN 2020), Birla Institute of Applied Sciences (BIAS), Bhimtal, Uttarakhand, India, 25th-26th Sep 2020.
7. "Secure Communication in Internet of Everything (IOE) Based Smart Weather Reporting Systems." 2-day International Conference on recent Innovations in Science, Engineering, Humanities and Management, Institution of Engineers, Chandigarh, India, 16th-17th January 2021.
8. "Smart Farm Protection System Using IoT." 2023 4th International Conference on Signal Processing and Communication (ICSPC), Coimbatore, India, 23-24 March 2023.
9. "E-ventilator (Emergency ventilator) for Emergency Situations." 2023 IEEE 8th International Conference for Convergence in Technology (I2CT), Lonavla, India, 7-9 April 2023.
10. "Scheduling in Multi-Hop Wireless Networks using a Distributed Learning Algorithm." 2023 7th International Conference on Trends in Electronics and Informatics (ICOEI), Tirunelveli, India, 11-13 April 2023.
11. "Anomaly Detection of Smart City in IoT Cyber-attacks based on Hybrid A-BiLSTM-CRF Method." International Conference on Sustainable Communication Networks and Application (ICSCNA 2023), Theni, India, 15th-17th November 2023.
12. "Real Time Object Detection and Recognition Using Deep Learning Algorithm." 2023 2nd International Conference on Futuristic Technologies (INCOFT), SG Balekundri Institute of Technology (SGBIT), Belagavi, Karnataka, India, 24th-26th November 2023.

13. "Threat Detection Analysis Using Machine Learning and Deep Learning Techniques" 2nd International Conference on Recent Advances in Artificial Intelligence, Computer Vision & Smart Systems (ICRACS-2025)" organized by the Department of Artificial Intelligence & Data Science on April 16-17, 2025 at Poornima Institute of Engineering and Technology, Jaipur, Rajasthan.
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#### **BOOK CHAPTERS:**

1. Security and Open Challenges in Internet of Things (IOT) in "Futuristic Trends in IOT," ISBN: 978-93-95632-69-0.
2. Internet of Things (IOT): Threats and Attacks in "Multidisciplinary Research Trends, Volume 4," ISBN: 978-93-954563-2-6.
3. Implementation of Edge Computing Paradigm in IOT Technology in "Futuristic Trends in IOT," ISBN: 978-93-5747-531-0.

#### **PATENT APPLICATIONS:**

1. Title: Expansion of an IoT Valuation scheme: an interdisciplinary context for energy proficient buildings in smart cities.  
Patent Number: 202141056109A. Date of Publication: 10/12/2021.
2. Title: Development, authentication, and application of 3D-printed IoT-based water quality monitoring system 4.0 Industrial Revolution Approach.  
Patent Number: 202141056110A. Date of Publication: 10/12/2021.
3. Title: Device for detecting diseased leaves in plants by image processing  
UK Design Application Number: 6304965 Grant Date: 04 September 2023. Registration Date: 23 August 2023.
4. Title: Modular IoT-Controlled Lighting System for Energy-Efficient Smart Homes and Offices. UK Design Application Number: 6416127 Grant Date: 26 February 2025. Registration Date: 08 January 2025.

#### **MEMBERSHIP OF PROFESSIONAL SOCIETIES/BODIES:**

1. The Indian Society for Technical Education (ISTE).
2. Society for Technologically Advanced Materials, India (STAMI).
3. The Institute of Electronics & Telecommunication Engineering (IETE).
4. International Association of Engineers (IAENG).
5. The Institution of Engineers (India).

#### **FACULTY DEVELOPMENT PROGRAMS (FDPS):**

1. Microprocessors & Microcontroller (NPTEL) - Duration: Jan-Apr 2023
2. Hands-on Experience on Internet of Things in IISER Bhopal (NPTEL) - Duration: 10th – 15th July 2023
3. Introduction to Internet of Things (NPTEL) - Duration: Jul-Oct 2023
4. Cloud Computing (NPTEL) - Duration: Jan-Apr 2024

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- ❖ **Research Gate ID:-** <https://www.researchgate.net/profile/Amit-Chinchawade>
  - ❖ **Scopus Author ID:-** 57220090548
  - ❖ **Google Scholar:-** <https://scholar.google.co.in/citations?user=2wtf6zgAAAAJ&hl=en>
  - ❖ **ORCID ID:-** <https://orcid.org/0000-0002-3815-3163>
  - ❖ **LinkedIn ID:-** [www.linkedin.com/in/dr-amit-chinchawade-03a6a332](https://www.linkedin.com/in/dr-amit-chinchawade-03a6a332)
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#### **DECLARATION**

I, hereby, declare that all the above furnished information is true and it is best of my knowledge.

Place: Sangli.

**(Dr.A.J.Chinchawade)**