



Dr. Vishal S. Badgujar

Assistant Professor (PhD), Information Technology, IEEE Senior Member
A.P. Shah Institute of Technology, Thane, Mumbai University, India

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Objective

To utilize my technical knowledge and expertise in the field of Computer Engineering and allied streams wherein I can explore new opportunities in research and development.

Research Profiles

- Web of Science ID: [L-7930-2018](#)
- Scopus Author ID: [57205288144](#)
- ORCID: [0000-0002-8265-4168](#)
- VIDWAN ID: [379828](#)
- Google Scholar:
<https://scholar.google.co.in/citations?hl=en&pli=1&user=CHbeaF0AAAAJ>

Academic Profile Summary

- Teaching and research experience of over 11 years in Computer Engineering and Information Technology.
- Research focus on Cyber Security, Artificial Intelligence, DevOps, Cloud Computing and Open-Source Technologies.
- IEEE Senior Member
- 200+ Google Scholar citations, H-Index: 6, i10-Index: 5.
- Scopus indexed journal publications with multiple international conference papers.
- Author of two academic books and holder of multiple patents and copyrights.
- Active reviewer for several Elsevier and Springer journals.

Research Metrics

- Google Scholar Citations: 200+
- H-Index: 6
- i10-Index: 5
- Web of Science H-Index: 3
- Scopus Indexed Publications (Journals + Conferences): 20+
- International Conference Publications: 20+
- Books Authored: 2
- Patents Published: 2
- Copyrights Registered: 5

Education

- PhD in Computer Engineering – University of Mumbai (2026)
Thesis Title: Risk Level Analysis of AI-Based Open-Source Architecture.
Research Supervisor: Dr. Chandrashekhar Raut
- M.E. in Computer Engineering – University of Mumbai (2014)
- B.E. in Information Technology – North Maharashtra University (2011)
- Higher Secondary School (HSC) – Nasik Board (2007)
- Secondary School Certificate (SSC) – Aurangabad Board (2005)

Academic and Professional Experience

- Assistant Professor, A.P. Shah Institute of Technology, Thane (July 2023 – Present)
- Senior IT Faculty, iNurture Education Solutions Pvt. Ltd (Nov 2022 – July 2023)
- Assistant Professor, Vishwakarma University, Pune (Aug 2022 – Oct 2022)
- Assistant Professor, A.P. Shah Institute of Technology, Thane (July 2015 – June 2022)
- Assistant Professor, PVPPCOE (Jan 2015 – May 2015)

Awards & Professional Recognition

- IEEE Day Ambassadors 2026
- IEEE Senior Member
- Best Faculty Overall Performance in Department of Information Technology
Recognition at APSIT, Thane.
- Red Hat Academy Program Educator – 2024, 2025 & 2026
- Red Hat Learning Community Mastery Series Winner
- Excellent Reviewer Rating – Web of Science
- BluePrism Best Performing Educator
- GATE 2012 QUALIFIED
- Recognition as Active Reviewer for journals published by Elsevier and Springer
- STAR QC Award in NPTEL Translation and Quality Review Project funded by
Ministry of Education, Government of India.

- Selected Reviewer for Computer Science Standards Revision by the Computer Science Teachers Association (CSTA), USA.

Publications

A. Scopus Indexed Journal Publications: 01

1. Badgujar, V.S., Raut, C.M.,
“MAOMLB: Advancing Malware Analysis with AI-Based Open-Source Architecture Integrating Machine Learning and Behavioral Techniques”,
Journal of Applied Research and Technology (Unpaid-Q3, Scopus Indexed)-
Dec.2025.

B. UGC CARE Journal Publications :02

2. Badgujar, V., Raut, C.,
“RNN Based Rapid Threat Detection and Response System”,
Industrial Engineering Journal, UGC CARE Group-1.
1. Badgujar, V., Raut, C.,
“Secrets of Mind Map in Education”,
Industrial Engineering Journal, UGC CARE Group-1.

C. International Conference Publications (Springer / IEEE Indexed) : 22 (Scopus)

22. Auditing Financial Statements: Addressing the Challenges of Globalization and Regulatory Complexity, IEEE
21. BAOSAML: Behavioral AI-Based Open-Source Architecture for Malware Analysis Using Machine Learning, Springer LNNS.
20. Deep Learning Based Hierarchical Attention Mechanism for Risk Prediction, Springer LNNS.
19. VSecureSphere: Developing Virtual Lab for Simulating Safe Environment for Multiple Cyber-Attack Patterns, Springer LNEE.
18. ProjectSpace: A Comprehensive Framework for Automated Project Guide Allocation in Academic Institutions, Springer LNNS.
17. ChatApsit: A Generative AI-Based Comprehensive Web Framework for Educational Institutes, Springer LNNS.
16. Varishta Rakshak: An AI-Based Comprehensive Web Framework for Ensuring Senior Citizen Care in Real Time, Springer LNNS.
15. AI-ML Based Smart Online Examination Framework, Springer LNNS.
14. Automation of Supply Chain Management for Healthcare, Springer LNNS.
13. Spaced Repetition Based Adaptive E-Learning Framework, Springer LNNS.
12. Smart UAV Framework for Multi-Assistance, Springer SIST
11. On Trade Cloud Ecosystem Structure for Shared Learning, Springer LNNS.

10. Artificial Intelligence based Security Orchestration, Automation and Response System, IEEE
9. Autonetics and Administration for IT Laboratories, IEEE
8. Artificial Intelligence based Self-Driving Car, IEEE
7. Study on feasibility of Uniform Appraisal System, IEEE
6. Study on Semi Automation in Uniform Faculty Appraisal System, IEEE
5. ML Enabled Surveillance System for Societies, IEEE
4. Case Study on an Android App for Inventory Management System with Sales Prediction for Local Shopkeepers in India, IEEE
3. IoT-Key Towards Automation, IEEE
2. All About Cloud: A Systematic Survey, IEEE
1. A Comprehensive Survey on Theoretic Perspective Providing Future Directions on IoT, IEEE

Patents

2. Risk Level Analysis for AI Based Open-Source Architecture – Indian Patent Application No. 202421069723 (Published 2024).
1. System and Method for Secure Communication Based on ML Using IoT Equipment – Indian Patent Application No. 202211049343 (Published 2022).

Copyrights Registered

Software Copyrights Registered: 8

[8] “Performance Based Appraisal System for Educators.”

Indian Copyright Registration No.: SW-42120/2025

Published by: Copyright Office, Government of India

Date of Registration: October 16, 2025

[7] “ProjectSpace: A Comprehensive Web Framework to Manage Academic Project”

Indian Copyright Registration No.: SW-16534/2025

Published by: Copyright Office, Government of India

Date of Registration: April 04, 2025

[6] “VSecureSphere: Developing Virtual lab for Simulating Safe Environment for Multiple Cyber Attack Patterns.”

Indian Copyright Registration No.: SW-6873/2025

Published by: Copyright Office, Government of India

Date of Registration: February 02, 2025

[5] “AI-Driven Innovative Integrated Method for Enhanced Security Risk Analysis.”

Indian Copyright Registration No.: SW-20211/2025

Published by: Copyright Office, Government of India
Date of Registration: March 03, 2025

[4] "VULNDETECT: An Efficient Graph Network Model for Identifying System Vulnerabilities (Anomalies) and Indicators of Compromise (IOCs) Using Autoencoders, GNNs and GANs to Enhance Cybersecurity."

Indian Copyright Registration No.: SW-19348/2024
Published by: Copyright Office, Government of India
Date of Registration: August 16, 2024

[3] "CYBERALARM: Distinguishing True Positive Attacks and Eliminating False Positives in AI-Based Security."

Indian Copyright Registration No.: SW-18997/2024
Published by: Copyright Office, Government of India
Date of Registration: June 13, 2024

[2] "Risk Level Analysis for AI-Based Open-Source Architecture."

Indian Copyright Registration No.: SW-18712/2024
Published by: Copyright Office, Government of India
Date of Registration: May 03, 2024

[1] "On Trade Cloud Ecosystem Structure for Shared Learning."

Indian Copyright Registration No.: SW-14846/2021
Published by: Copyright Office, Government of India
Date of Registration: August 25, 2021

Books Authored

1. Cyber Forensics – University of Mumbai IDOL Publication (2022)
2. Intrusion Detection System in Wireless Sensor Network – LAP Lambert Academic Publishing (2017)

Funded Projects / Consultancy

- **NPTEL Translation and Quality Review Project**
 - Project funded by the Ministry of Education (Government of India) through the NPTEL initiative of the Indian Institute of Technology Madras.
 - Role: Technical Reviewer and Translator for multidisciplinary technical courses translated into Marathi and Hindi.
 - Total Project Value: ₹10.07 Lakhs
- Additional work:
 - Translation of courses including Cloud Computing, Operating Systems, and Database Systems.

Editorial & Reviewing Activities

- Section Editor – Computer Software and Media Application Journal
- Reviewer for multiple reputed journals including:
 - Elsevier Computers & Security
 - Elsevier Computer Networks
 - Elsevier Computer Standards & Interfaces
 - Elsevier Journal of Information Security and Applications
 - Springer SN Computer Science
 - Elsevier Engineering Applications of Artificial Intelligence
 - Springer Cybersecurity
 - Springer Evolving Systems
 - Journal of Computers, Materials & Continua
 - International Journal of Information and Education Technology
 - Journal of Advances in Information Technology
 - International Journal of Computer Theory and Engineering
- Reviewer for multiple reputed international conferences including:
 - 2026 CSTA K-12 Computer Science Standards
 - 4th International Conference on Power Engineering and Intelligent Systems (PEIS 2026)
 - 2nd International Conference on Information Technology and Artificial Intelligence (ITAI 2026)
 - 6th International Conference on Computer Vision and Robotics (CVR 2026)
 - 3rd International Conference on Business Intelligence and Data Analytics (BIDA 2026)
 - 1st International Conference on Computational Intelligence: Methods, Models, and Real-World Applications (ICCI 2026)
 - 10th International Conference on Computer, Communication and Signal Processing (ICCSP 2026)
 - International Conference on Electrical, Computer and Energy Technologies (ICECET 2026)
 - International Conference on Interdisciplinary Technology & Science Convergence ICITSC 2025 (FusionX Global).
 - International Conference on Advancement in Electronics & Communication Engineering (AECE-2025)
 - International Conference on Innovations And Emerging Technologies In AI & Communication Systems (IETACS 2025)

Academic Leadership & Institutional Contributions

- IEEE Senior Member
- Undergraduate Project Coordinator – IT Department
- NBA Accreditation Criteria 7 Incharge

- NPTEL Local Chapter SPOC
- Mentor and Evaluator – Smart India Hackathon
- Faculty coordinator for DevOps Club and APSIT Red Hat Academy
- Organizer – Internal Hackathons and Technical Events
- Actively Contributed in Institutional and Departmental Development Activities.
- Served as Session Chair for reputed international conferences, contributing to the academic peer-review process.

University Level Responsibilities

- Paper setting for Mumbai University for multiple subjects in the year 2024, 2025, 2026.
- Mentor for University Level Research Project Competition for the students MU Avishkar-2022, 2024 and 2025.
- External Examiner and Evaluator for Mumbai University Engineering Examination for multiple subjects like Cloud Computing & Services, Big Data Analytics, CNS, etc.

Professional Certifications

- **Cloud & DevOps Certifications**
 - Red Hat Certified System Administrator (RHCSA)
 - Oracle Cloud Infrastructure Architect Associate
 - Oracle Cloud Infrastructure Foundations
 - Microsoft Azure Fundamentals (AZ-900)
- **Artificial Intelligence / Data Science**
 - NVIDIA Fundamentals of Deep Learning
 - IBM Big Data Foundation
 - IBM Hadoop Foundation
- **Cyber Security**
 - ICSI Certified Network Security Specialist
- **Teaching & Academic Certifications**
 - Google Certified Educator Level 1 & 2
 - NPTEL Elite Certifications (Cloud Computing, Big Data, Ethical Hacking)

Professional Membership

- IEEE Senior Member: 92593454
- IAENG (International Association of Engineers) Member: 135433.
- ISTE Lifetime Membership: 126884.
- A member of the Computer Science Teachers Association (CSTA): 198358021419
- SPSC Ambassador -Sustainability Promoters & Sustainability Collaborators

Invited Talks/ Expert Lectures

- Expert Talk given in ISTE Approved STTP for Faculties at CRCE Bandra on Topic: Deployment and Workflow Automation.
- Expert Talk given at PVPPCOE, Sion for Faculties on Topic “Strategic Mapping of Engineering Projects to Sustainable Development Goals Cell (SDG) Using Emerging Approaches”.
- Expert Talk given on “Cloud Security and Career Opportunities in Cloud Computing” at VIT, Pune and CSI Pune Chapter in Oct. 2024.
- Expert Talk given on various technical topics like Cloud Computing, DevOps, Linux, LaTeX, etc.

Academic Contributions

- Red Hat Learning Community Ambassador for year 2025.
- Mendeley Advisor by Elsevier.
- Paper Setter for Information Retrieval Subject at K. J. Somaiya Institute of Technology, Sion
- SPOC, Evaluator and Mentor for National Level Hackathon Smart India Hackathon-2022, SIH-2024, 2025.
- Faculty Coordinator for EXALT-2023 Intercollegiate Technical Project Competition.
- Panel Member for Internal Hackathon of SIH Internal Hackathon-2024 and 2025.
- Paper Setter in Autonomous Institute D. J. Sanghvi College of Engineering, Mumbai, May-2022.
- NBA, AICTE Committee Works: NBA Criteria 7 Institute level Incharge.

UG Projects Guided

- AssetIQ: Comprehensive AI Enabled Framework for Asset Management of Educational Institute
- RiskVision: A Comprehensive AI-Based Web Platform for Financial Risk Assessment
- ProjectSpace: A Comprehensive Web framework to Manage Academic Projects by using Genetic Algorithms and Machine Learning
- VSecureSphere: Developing Virtual Lab for Simulating Safe Environment for Multiple Cyber Attacks Patterns
- ChatApsit: Generative AI based comprehensive web Framework for an Educational Institute.
- Varistha Rakshak: An AI-based comprehensive web framework for ensuring senior citizen care in real-time.
- Automation of Supply Chain Management for Healthcare
- AI Based Smart Online Examination Framework
- Artificial Intelligence based Security Orchestration, Automation and Response System
- Autonetics and Administration for IT Laboratories

- Automation in Uniform Faculty Appraisal System
- ML Enabled Surveillance System for Societies
- Artificial Intelligence based Self-Driving Car
- AI Based Smart UAV
- IoT Enabled Smart Lab

Research Interests

- Cyber Security
- Artificial Intelligence and Machine Learning
- DevOps and Cloud Automation
- Open-Source Technologies
- Big Data Analytics

Declaration:

I, Vishal Sahebrao Badgujar, hereby declare that the information furnished above is correct and true to the best of my knowledge and beliefs.

DATE :

PLACE : MUMBAI

Dr. Vishal S. Badgujar