

## Dr. Sheetal Zalte-Gaikwad

F-7, Landmark Residency, Circuit House,  
Tarabai Park Kolhapur – 416003



Currently working with:  
Computer Science Department  
Shivaji University, Kolhapur

**Cell: 9422785209**

**Email: sheetal.zaltegaikwad@gmail.com**

---

### **SUMMARY :-**

An aim oriented dedicated person who works smartly for learning and applying new things in order to stand with the latest technologies for the excellence and my career growth.

Currently working as Assistant Professor in Computer Science Department, Shivaji University, Kolhapur

14 years teaching experience

---

### **HIGHLIGHTS :-**

1. Worked as Data Collection Expert at NAAC( IQAC cell) Shivaji University, Kolhapur 2018-2019

2. **Inspirational Women Award 2020 for Young Scientist**, On the occasion of International Award Conference on Empowering Girls for Brighter Tomorrow 2020 by SNDT Women's University, Mumbai.
3. **Best Paper award** in National Web Conference on Emerging Trends in Science, Technology and Smart Computing , Willington College, Sangli,5-mar-2021
4. **Best Paper award** in“International Conference on Recent Trends in Computing (ICRTC 2021)” organized by Department of Computer Engineering,Sanjivani College of Engineering,Kopargaon,Maharashtra, India during May 21 & 22, 2021.
5. **Worked s lead editor for the book-“Synergistic Interaction of Big Data with Cloud Computing for Industry 4.0”** Taylor and Francis Group
6. **Working as editor** for the International book-“ **Machine Learning Applications: From Computer Vision to Robotics”** Wiley – IEEE Press publication
7. **Authored book-Computational Theory problems and Solutions, International publication-Pacific publication,ISBN-978-93-92469-49-7,August-2022**
8. **Appointed as reviewer** at First International Conference of Machine Intelligence and System Sciences(Nov 01 to 02-2021)
9. **Appointed as Session Chair** at First International Conference of Machine Intelligence and System Sciences(Nov 01 to 02-2021)
10. As reviewer for “American Journal of Applied Scientific Research(AJASR);”
11. Appointed as a member of the ‘Editorial Board’ for Journal (s) of ‘Blue Eyes Intelligence Engineering and Sciences Publication (BEIESP) for year 2021-22.
12. Participated in ISO committee in Shivaji University, Kolhapur
13. Appointed as a member of the ‘Editorial Board’ for Journal (s) of ‘Lattice Science Publication (LSP) for year 2021-22.
14. **Appointed as Session Chair** at First International Conference of Futuristic Trends in Information Technology ,Vijaypur (29/04/2023)
15. **Worked as Organizing committee member at** First International Conference of Futuristic Trends in Information Technology ,Vijaypur (29/04/2023)
16. As reviewer for Hindawi Journal (31.12.2022)
17. Worked as editor for Souviner ANVENSHAN 2023-24, student research convention (west zone), Dec 28-29,2023.

**INDIAN PATENT FILED AND PUBLISHED :-**

- 1. Secure Routing protocol for Mobile Ad-hoc Network. Application no. 201921053631**
- 2. Iot Based Cost Effective Wireless Infrared Thermometer Designed for Non-Contact Newborn Health Care Monitoring System, Publication date 08/07/2022, Application no. 202231032951**

**PROJECT AND RESEARCH WORK:-**

**“Design and Development of Secure Routing Protocol for Mobile Ad-hoc network”**

The developed Secure New AODV routing protocol guarantees that data packets travel through network with elevated security. It achieves all security primitives such as authentication, non-repudiation, confidentiality and integrity in malicious environment. It guarantees that only legitimate nodes can participate and also achieves access control

**ACADEMICS :-**

<b>Course</b>	<b>Passing Year</b>	<b>University/Board</b>
Ph.D.	2019	Shivaji University
M.Sc.Comp.	2004	Pune University
B.C.S.	March 2002	Pune University

**PUBLICATIONS :-**

1. S.S.Zalte and Vijay R.Ghorpade, “Secure Token for Secure Routing of Packet in MANET”, (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 5 (6), 2014, pp- 6916-6919. Impact factor 2.28
2. S. S. Zalte and V. R. Ghorpade, “A Review Paper on Use of Cryptography to Provide Security in VANET”, National Seminar on Recent Trends in Information Technology (NSRTIT - 2015), CSIBER, Kolhapur pp-15-18.
3. S. S. Zalte and V. R. Ghorpade, “Detecting malicious nodes for secure route discovery in MANET,” International Journal of Science and Research (IJSR), ISSN (Online): 2319-7064, vol. 5, no. 6, June 2016, pp. 2269–2272. Impact factor 7.8
4. S.S. Zalte and V.R. Ghorpade, “Secure AODV Routing Protocol for Mobile Adhoc Network”, published in **IEEE** proceedings, **SCOPUS indexed**, WiSPNET 2017 conference, Chennai, PP-1481-1485.
5. S.S. Zalte and V.R. Ghorpade, “Pre-Path and Post-Path Security to Mobile Ad-hoc Network”, IJSRSET, ISSN: 2395-1990, volume 3, issue 5, July-Aug 2017, **UGC Approved** Journal, pp-575-578. Impact factor 7.1
6. S.S. Zalte and V.R. Ghorpade, “Components for Designing of Secure Routing Protocol”, IJCSE, 2017, E-ISSN-2347-2693, issue-12, vol-5, **A UGC Approved** Journal PP-313-316. Impact factor 3.8
7. S.S. Zalte and V.R. Ghorpade, “A Survey on Secure Routing Protocols for Mobile Ad-hoc Network”, IJCA (2250-1797), Feb-2018, issue-8, vol-1, PP-13-19. Impact factor-3.12
8. S.S. Zalte and V.R. Ghorpade, “Intrusion Detection System for MANET”, 12CT, **IEEE, SCOPUS Indexed**, 2018.
9. S.S.Zalte, Prajkta Patil, “An Intelligent Transport System:VANET(Vehicular Ad-hoc Network),**International Journal of Information System**, ISSN 2229-5429,vol IX,issue II,jan-may2019,pp-67-70. Impact factor 5.6
10. Yasir Ahmed Taha,Hayder K.A., Gaikwad S.S.,R.K. Kamat, “ An Integrated Expert Water management (IEWM) with IOT”,IJITEE, Elsevier and **SCOPUS** indexed journal ,vol-9,issue 2,dec-2019 Impact factor 5.6
11. Zalte S. S., R. K. Kamat, V. R. Ghorpade,“Mitigation of DDoS Attack in MANET’ , (IJEAT)’ , ISSN: 2249-8958 (Online), **Elsevier and SCOPUS** indexed journal ,Volume-9 Issue-6, August 2020, Page No. 410-413.
12. Zalte S S, Patil P. N., Deshmukh S. N. , Kamat R. K, “ Data Packet Security in MANET and VANET”, BBRC in Special issue on Emerging Research on

- Management, Sciences and Technology Special Issue Volume 13 No (15) 2021, Emerging Sources Citation Index (ESCI) / Web of Science (WoS) and NAAS Score 4.31. pp-271-274
13. Pallavi Katkar, Sheetal Zalte, Suhas Katkar, Vijay Ghorpade “Energy Efficiency Through Prediction in Wireless Sensor Network”, Psychology And Education (2021) 58(2): 9371-9376, ISSN:0033-3077,**SCOPUS indexed** Accepted: 18 November 2020,pp-9371-9376
  14. Zalte S S , Patil P. N., Deshmukh S. N ,“Study Of Machine Learning Algorithms For Stock Price Prediction”, Vidyabharathi International Interdisciplinary Research Journal special issue ISSN 2319-4979.,**WoS, UGC CARE LIST II**, Oct- 2021
  15. Zalte S. S.,Patil P.N.,Deshmukh S.N.,”Distributed Firewall with Dynamic Intrusion Detection System”,IAEME publication, **SCOPUS** indexed, IJARET,Vol-12,issue 4,April 2021, ISSN(0978-6480),PP-484-491.impact factor(10.94)
  16. Zalte S.S.,Ghorpade V.R.,Kamat R.K.,"Energy Efficient Secure Routing Protocol for MANET", ICICTES conference at SKN Sinhgad College of Engineering, **CRC press**,25-26 June 2021
  17. Zalte S.S.,Ghorpade V.R.,Kamat R.K,"Synergizing blockchain,IoT, and AI technologies for Intelligent Transport Solution through VANET", “Emerging Computing Paradigms: Principles, Advances and Applications” (**ECPPAA**). **SCOPUS, Wiley publication.**
  18. Sheetal zalte and rajanish kamat,” **Blockchain Technology: Developers Cultivate Novel Applications for Societal Benefit”, Transforming Cybersecurity Solutions Using Blockchain, Blockchain Technologies, Springer publication 2021,pp-215-230**
  19. Dr.Zalte .S.<sup>a,1</sup>,Patil P.N.<sup>b</sup>, Deshmukh S.N," Blockchain Technology:Rising Trendin Various Applications," ICRTC, **Advances in Parallel Computing, SCOPUS** indexed ,Sanjivini College of Engineering, may 21-22(2021)
  20. Pallavi Katkar 1, Ashwini Pawar 2,Sheetal Zalte 3, Suhas Katkar 4," Node Failure Management to Improve the Performance of Wireless Sensor Networks" , ICRTC, **Advances in Parallel Computing, SCOPUS** indexed, Sanjivini College of Engineering, may 21-22(2021)

21. Zalte, S., Deshmukh, S., Patil, P., Patil, M., & Kamat, R. K. (2022). Industry 4.0 Revolution and Its Impact on Society. In A. Tyagi (Ed.), Handbook of Research on Technical, Privacy, and Security Challenges in a Modern World (pp. 167-185). IGI Global. <https://doi.org/10.4018/978-1-6684-5250-9.ch009>
22. Zalte, S., Deshmukh, S., Patil, P., Patil, M., & Kamat, R. K. (2022). **Industry 4.0: Design Principles, Technologies, and Applications** .In A. Tyagi (Ed.), Handbook of Research on Technical, Privacy, and Security Challenges in a Modern World (pp. 25-45). IGI Global. <https://doi.org/10.4018/978-1-6684-5250-9.ch002>
23. Pallavi Katkar, Sheetal Zalte, Suhas Katkar, “Prognostics Using Artificial Intelligence: Future Need”, National Conference, Progression in Science, technology and Smart Computing, 2021, pp-344-348
24. Sheetal Zalte, Meenakshi Patil, Suvarna Tone, “ Edge Computing Technology: An Overview “, AJOMC, UGC Care Approved Journal, Volume 7, No.1, Jan-March 2022, ISSN: 2456-8937, pp-96-99 **impact factor-5.78**
25. Zalte S.S., Patil S.A., Chavan J.A., “ Swoc Analysis Of E-Learning Technology In Covid-19 Epidemic”, Journal of the Maharaja Sayajirao University of Baroda ISSN: 0025-0422, Volume-56, No.1 (III) 2022, pp-1-7
26. Zalte S.S., Patil S.A., Chavan J.A., “ Blended Learning: Today’s Need For Education”, The Journal Of Oriental Research Madras Issn : 0022-3301 | March 2022, pp-50-55
27. Sheetal Zalte , Heena Bhatia , Rashmi Deshmukh , Neha Gupta , Rajanish Kamat, “ Overview of Attack Surfaces in Block chain”, Applications of Blockchain in Cybersecurity Solutions, 2021, **Bentham publication, pp-1-19**
28. \*Heena Bhatia 1 , Sheetal Zalte 2 , Indranath Chatterji 3 , Dnyaneshwar Mantri, “Review of Anti Counterfeit Solutions in Blockchain”, Applications of Blockchain in Cybersecurity Solutions, 2021, **Bentham publication** , pp-1-17
29. Rajani Zambare, Rashmi Deshmukh, Chetan Awati\*, Sheetal Zalte, “ Deep Learning Model for Disease Identification of Cotton Plants”, **Specialusis Ugdymas / Special Education** 2022 1 (43), pp-6684-6695
30. \*Jaykumar Bhosale, Sheetal Zalte & B.T. Jadhav, “ Comparison of Routing Protocols with Performance Parameters in MANET using NS3”, **International Conference on Advancements in Interdisciplinary Research (2022)**, 6<sup>th</sup> – 7<sup>th</sup> May 2022 at MNNIT Allahabad, Prayagraj, India.
31. Rupali J Dhabarde, D.V. Kodawade, Sheetal Zalte, “Hybrid Machine Learning Model for Lie-Detection”, 2023 **IEEE 8th International Conference for Convergence in Technology (I2CT)**, Pune, India. Apr 7-9, 2023
32. Jaykumar P. Bhosale, S. S. Zalte, B T. Jadhav, “Overview Of Routing Issues And Challenges In MANET”, published in Book Artificial Intelligence and Machines, chapter no.3 , March 2023, PP-22-27

33. K.S.Oza,S.S. Zalte, “Role of ICT Tools in Andragogy”,Educreator Research Journal, Volume-IX,Special Issue-I,Nov-Dec 2022,PP-95-98(UGC care)
34. Rupali dhabarde,D.V. kodavade,rashmi deshmukh,sheetal S. Zalte, “Recognition of Facial Expressions in Infrared Images for Lie Detection with the Use of Support Vector Machines” In book:synergistic Interaction of Big Data with Cloud Computing for Industry 4.0,DOI:10.1201/9781003279044-11. Chapter-11,pp-163-174.
35. R. J. Dhabarde, D. V. Kodawade and S. Zalte, “Hybrid Machine Learning Model for Lie-Detection," 2023 IEEE 8th International Conference for Convergence in Technology (I2CT), Lonavla, India, 2023, pp. 1-5, doi: 10.1109/I2CT57861.2023.10126460.
36. Mary Olawuyi Ojo, Indranath Chatterjee and Sheetal Gaikwad, “The Impact of Artificial Intelligence and Big Data in the Postal Sector”, In book:synergistic Interaction of Big Data with Cloud Computing for Industry 4.0,chapter-3,pp-47-60.
37. R. Deshmukh and Dr. S. Gaikwad, “Study and Investigation of PKI-based Blockchain Infrastructur”, In book:synergistic Interaction of Big Data with Cloud Computing for Industry 4.0,chapter-6,pp-87-96.
38. Harshvardhan Patil,S.S. Zalte,Rupali Dhabarde, “Artificial Intelligence and its Impact on Society”,in book:Futuristic Trends in Information Technology”,chapter-6,pp-37-40.
39. Aniket Mengane,S.S. Zalte,S.V. Katkar,”Role of Artificial in Cyber Security”, in book:Futuristic Trends in Information Technology”,chapter-7,pp-42-46
40. P.R. Shinde,S.V.Katkar,J.P.Bhosale,S.S.Gaikwad(Zalte), “An Overview Internet of Things(IoT) ”,in book:Futuristic Trends in Information Technology,chapter-9,pp-55-59.
41. Akanksha Patil,S.S.Zalte, “Use-Cases and Limitations of ChatGPT in Healthcare”, in book:Futuristic Trends in Information Technology,chapter-11,pp-73-77
42. Shruti Y.jadhav,S.S.Zalte, “Image Processing:Applications and Phases”, in book:Futuristic Trends in Information Technology,pp-77-81.
43. A.R.Patil,S.V.katkar,S.S.Gaikwad(Zalte), “Impact of 5G Network on IoT”, in book: Futuristic Trends in Information Technology, chapter-13,pp-82-86.
44. Nivedita Kadam,S.S.Zalte,S.V. Katkar, “Privacy and Security Issue in Bigdata”, in book:Futuristic Trends in Information Technology,chapter-16,pp-108-112.
45. J.K. Bhosale, S.S. Zalte, “Improve Performance of DSR using Fuzry Logic”, 6th IEEE International conference on Advances in Science and Technology (ICAST-8-9- dec-2023).

46. R.J.Dhabarde<sup>1</sup>, Dr. D.V. Kodavade<sup>2</sup>, Dr. S.S. Zalte<sup>3</sup>, Aditya Konnur<sup>4</sup>, “ Emotion Detection Using Integration Of Deep Learning And Svm”, ISSN (PRINT): 2393-8374, (online): 2394-0697, vol-11, issue-2, 2024,pp-18-21.

### **PARTICIPATION IN WORKSHOPS/SEMINARS/CONFERENCES :-**

<b>Sr.No.</b>	<b>W/S/C</b>	<b>Title/place</b>	<b>Place and Date</b>
1	National Conference”Recent Trends in Information Technology”	Review paper on use of cryptography to provide security in VANET	CSIBER,Kolhapur 7-mar-2015
2	NS3-Workshop	Roysoni College of Engineering, wagholi	7 to 10 feb 2015
3	NS2 -Workshop	Bhokre College of Engineering	Miraj 2014
4	One day workshop	Use of Computer For Data Analysis	Vivekanand College,Kolhapur,2013
5	NS2-Workshop	Sinhgad Institute,Lonavla	3to 7 Dec 2012
6	Revised Syllabus Workshop for B.C.A.	D.K.A.S.C. College,Ichalkaranji	17 August 2011
7	Research Methodology and Quantitative Techniques	Department Commerce and Management, Shivaji University	10 to 11 Dec 2010
8	WiSPNET IEEE	international Conference on Wireless Communications, Signal Processing and Networking	2017,chennai
9	I2CT IEEE	Convergence in Technology (I2CT )	2018,pune
10	NAAC revised Accreditation Framework	Shivaji University	2018,Kolhapur
11	‘National Resource Centre in Cyber security and Data Sciences	Shivaji University	2019,Kolhapur
12	International Conference on Innovation of IT and	Pune University	2019



	Management		
13	International E- Conference on Modern Research in Agriculture, Biological medical and Environmental Sciences	Organized by IARA	21-Feb-2021
14	IVCSAMSEA	KL University	3-5 December
15	National Web Conference on Emerging Trends in Science, Technology and Smart Computing	Willington College, Sangli,	5-Mar-2021
16	Emerging Research on Management, Sciences and Technology	Bioscience Biotechnology Research Communications	21-feb-2021
17	IC2TMA 2021	MES's IMCC Pune,	16th and 17th April 2021
18	“RMD Sinhgad Technical Institutes Campus International Conference on Innovative Practices in Engineering Technology and Business Management (RMDSTIC-2021)”	Sustainable Challenges and Smart Practices in Engineering Technology & Management	25 and 26 march 2021
19	ICICTES conference	SKN Sinhgad College of Engineering,	25-26 june 2021
20	2nd International Conference on Science, Technology And Innovation	Edge computing technology: an overview	06-02-2022
21	International Conference on The future global business and echnology(challenges ahead)	Chhatrapati Shahu Institute of Business Education and Research (CSIBER), Kolhapur	December, 8-10 2022
22	IEEE 8th International Conference for Convergence in Technology (I2CT)	Pune, India	Apr 7-9, 2023

**WORKED AS A RESOURCE PERSON :-**

1. Delivered Lectures On DBMS in Geography Department, Shivaji University, Kolhapur
2. Delivered Lectures on ADBMS in IGNU, Siber , Kolhapur
3. Appointed as paper setter for M.C.A. bridge course, Shivaji University, Kolhapur
4. Delivered lectures for M.C.A. and M.Sc. Shivaji University, Kolhapur students under UGC Scheme of Remedial Coaching for SC/ST students
5. Delivered a lecture on Socket Programming on 2019 for M.C.A. students at Department of Commerce and Management, Shivaji University, Kolhapur
6. Worked as resource person for the course work in Ph.D. in Computer Science organized by Department of Computer Science, Shivaji University, Kolhapur during December- 2020
7. Worked as reviewer as evaluating research paper and contribution as judge for oral presentation session of one day National Web Conference on Emerging Trends in Science, Technology and Smart Computing, Willington College,Sangli,5-Mar-2021

**FACULTY DEVELOPMENT/ORIENTATION PROGRAMME :-**

- Participated in the Android Development with Kotlin Train-the-Trainer program for 28/09/2020 to 03/10/2020 organized by Google Developers.
- Participated in one week F.D.P. on java business application organized at RMD Sinhgad school of Engineering, Pune in association with spoken tutorial project, I.I.T. Bombay during 2-may-2020

- Participated in one week F.D.P. on R training organized at Indra College of Engineering and Management in association with spoken tutorial project, I.I.T. Bombay during jan-2020
- Participated in one week F.D.P. on PHP and MYSQL organized at Pravara Rural Education Society's Sir Visvesariya Institute of Technology, Nasik in association with spoken tutorial project, I.I.T. Bombay during 8-may-2020 to 13-may-2020
- Attended online Webinar organized by IEEE STANDARDS ASSOCIATION AND MHRD PMMMMNTT FDC, Shivaji University, Kolhapur on "IEEE 802.11 and Building Wireless Community Network 22-may-2020
- Attended online Webinar on Use of IoT in Industry 4.0 organized by Sinhgad Institute of Technology ,Lonavala on 18-june-2020

**SUBJECT TAUGHT:**

- 1) Programming Languages-C,C++,Advance data structure, Java(core),SQL
- 2) Database Management System, RDBMS, Networking, Operating System
- 3) Python Programming, Design and Analysis of Algorithm
- 4)Blockchain Technology

**FIELDS OF RESEARCH INTEREST:-**

- 1) **Mobile Adhoc Network (MANET)**
- 2) **Vehicular Adhoc Network (VANET)**
- 3) **Cyber Security**
- 4) **Machine Learning**
- 5) **Blockchain**

**COMMITTEE MEMBER:-**

- 1] BoS Member in Courses for Colleges on Border for the year 2021-22
- 2] BoS Member in Courses B.Sc. (Information Technology) Entire for the year 2021-22
- 3] BoS Member in M.Sc. I Computer Science for year 2021-22,2022-2023,2023-2024

### **TEACHING EXPERIENCE:**

<b>Under Graduates</b>	<b>Post Graduates</b>	<b>Name of College</b>	<b>Duration</b>
B.Sc. Biotech		Lokmangal college, Solapur	One year(2005-2006)
B.C.S.	M.C.S	T.C.College, Baramati	Two year(2006-2008)
B.C.A		Shahaji college, Kolhapur	Two year(2008-2010)
B.C.A		Vivekanand College, Kolhapur	Three year(2010-2013)
B.Sc.		Vivekanad College, Kolhapur	1year(2014-2015)
	M.Sc.	Department of Computer Science, Shivaji University, Kolhapur	2 year(2018-2020)
	M.Sc.	Department of Computer Science, Shivaji University, Kolhapur	2020-2021
	M.Sc.	Department of Computer Science, Shivaji University, Kolhapur	2021-2022
	M.Sc.	Department of Computer Science, Shivaji University, Kolhapur	2022-2023
	M.Sc.	Department of Computer Science, Shivaji University, Kolhapur	2023-2024

### **TECHNICAL SKILLS:-**

Operating System : Windows XP, Linux

Languages : C, C++, MYSQL, Core  
Java, Python programming  
Database : MS-Access, Oracle 10g, SQL-Server  
Simulator : NS2, NS3

---

I hereby declare that all the information provided by me is best to my knowledge.

(Dr. Sheetal Zalte-Gaikwad)