

# Resume

**Dr. Rahul Ganpatrao Sonkamble**

**Assistant Professor, CSE / IT**



**Contact No.** +91 7387427827

**D. O. B:** 15<sup>th</sup> February 1987

**Passport:** T4424050

**Google Scholar:** <https://scholar.google.com/citations?user=B9A6c0wAAAAJ&hl=en>

**ORCID:** <https://orcid.org/0000-0001-6075-9519>

**Email:** [rahulsonkamble@gmail.com](mailto:rahulsonkamble@gmail.com)

**Ex. Faculty coordinator of Blockchain Specialization, University Asst. Professor, Researcher, Blockchain technology expertise**

## Educational Qualifications

- Completed Ph.D. entitled “Privacy-Preserving Interoperable Blockchain for Storage and Exchange of Electronic Health Records” in February-2025 from Symbiosis International University, Pune, Maharashtra, India.
- Completed M.Tech. - Computer Technology in 2014 from Veermata Jijabai Technology Institute, Mumbai, Maharashtra, India.
- Completed B.E. - Computer Science & Engineering in 2011 from Pune university, Maharashtra, India.

## Teaching Experience (10.7 Years)

Sr. No.	Name of Organization	Duration
1	SVERI's College of Engineering, Pandharpur	15 <sup>th</sup> July 2014 – 30 <sup>th</sup> April 2016
2	Sanjay Ghodawat University, Kolhapur	02 <sup>nd</sup> May 2016 – 19 <sup>th</sup> April 2021
3	MIT ADT University, Pune	21 <sup>st</sup> April 2021 – 30 <sup>th</sup> April 2024
4	Pimpri Chinchwad University, Pune	2 <sup>nd</sup> May 2024 – till date

## Professional Experience

**MoUs initiated by me (4).**

### 1. Klyntra (MIT ADT)

*Purpose:* Internship for students.

*Outcome:* One student got an internship; one faculty group is working with a blockchain project on carbon footprints.

## **2. dHealth (MIT ADT)**

*Purpose:* First dHealth blockchain supernode in India, internship for the students

*Outcome:* dHealth blockchain supernode is installed in MIT ADT campus. 4 Students have completed internships.

## **3. Hypermine (MIT ADT)**

*Purpose:* Student internships, consultancy projects, Combined IPRs

*Outcome:* 8 students got selected for the internship.

## **4. Accelchain:** Draft is finalized.

## **PoC delivered under Centre of Excellence in Blockchain (2)**

1. Department of Stamp and Registration department, Pune of land registration documents.
2. Agrozee company for Millet's Supply Chain Management.

## **Certifications (5)**

1. Blockchain Basics offered by coursera (12/01/2019)
2. Solidity: Programming Language for Smart Contract offered by Udemy (28/11/2019)
3. Smart Contracts offered by coursera (26/05/2020)
4. Decentralized Applications (Dapps) offered by coursera (04/09/2020)
5. Global Certification in Polygon Developer offered Blockchain Council (16/01/2024)

## **Patent (1)**

1. Patent Filed on "Automatic Recommendation System to Overcome Depression in Dysfunctional behavior Using Machine Learning Techniques" in Indian Government. Application Number: 202341011358

## **Copyright (4)**

1. Copyright registered on "Structure of Deep Belief Neural Network" in Indian Government. Diary Number: 1155/2023-CO/L
2. Copyright registered on "Cryptographic Secure Algorithm with User Validating Preservation Scheme in IoT-Healthcare" in Canadian Government. Registration Number: 1195054 (Available online: [Link](#))
3. Copyright registered on "Secure Rescue Management System using Blockchain and Artificial Intelligence" in Indian Government. Diary Number: L-158490/2024
4. Copyright registered on "Blockchain Based Ticket Less Train Journey using Iris Recognition" in Indian Government. Diary Number: L-159345/2025

## **Books Published (6)**

1. Book on "Information Centric Networks: Future Internet" is published by International LAP LAMBERT publication, 1-80, 2015. (Available online: [Link](#))
2. Book on "Hybrid Particle Swarm Optimization for Data Clustering" is published by International LAP LAMBERT publication, 1-84, 2015. (Available online: [Link](#))

3. Book on “Performance Analysis of Multilayer Micro Strip Patch Antenna” is published by International LAP LAMBERT publication, 1-124, 2016. (Available online: [Link](#))
4. Book on “Data Mining” is published by NIRALI publications based on Dr. Babasaheb Ambedkar Technological University, Lonere. (Available in physical format as well as online: [Link](#))
5. Book on “Artificial Intelligence and Machine Learning” is published by NIRALI publications based on Savitribai Phule Pune University, Pune. (Available in physical format as well as online: [Link](#))
6. Book on “Engineering Economics and Financial Management” is published by NIRALI publications based on Savitribai Phule Pune University, Pune. (Available in physical format as well as online: [Link](#))

## Books Chapters (2)

1. Book chapter on “Machine Learning-Based Allocation of Resources in Blockchain Network for Optimum Efficiency” is published by IGI Global Scientific publication, in book titled as “Open AI and Computational Intelligence for Society 5.0”. (Available online: [Link](#))
2. Book chapter on “Studying into the Diagnostic and Therapeutic Applications of Machine Learning Algorithms in Medicine: Medicinal Applications Using Machine Learning” is published by IGI Global Scientific publication, in book titled as “Assistive Technology Solutions for Aging Adults and Individuals With Disabilities”. (Available online: [Link](#))

## SCOPUS / SCIE / ESCI Indexed Published Papers (10)

1. Published paper on “A blockchain secured metaverse framework for scalable and immersive telemedicine” in Scientific Reports (SCI and Scopus indexed), Vol. 15, 2025. Doi: <https://doi.org/10.1038/s41598-025-12068-6> (Available online: [Link](#))
2. Published paper on “BlockMed: AI Driven HL7-FHIR Translation with Blockchain-Based Security” in (IJACSA) International Journal of Advanced Computer Science and Applications (ESCI and Scopus indexed), Vol. 16, Issue 2, 2025. Doi: <https://dx.doi.org/10.14569/IJACSA.2025.0160233>. (Available online: [Link](#))
3. Published paper on “A secure interoperable method for electronic health records exchange on cross platform blockchain network”, in **MethodsX (ESCI and Scopus indexed)**, Vol. 13, 2024. doi: <https://doi.org/10.1016/j.mex.2024.103002>. (Available online: [Link](#))
4. Published paper on “PARKTag: An AI–Blockchain Integrated Solution for an Efficient, Trusted, and Scalable Parking Management System”, in **Technologies, (ESCI and Scopus indexed)**, Vol. 12, Issue 9, 2024. doi: <https://doi.org/10.1016/j.mex.2024.103002>. (Available online: [Link](#))
5. Published paper on “An Examination of Recent Techniques for Iris and Retinal Identification in High as well as Low Resolution Pictures”, in **European Chemical Bulletin (Scopus indexed now discontinued)**, Vol. 12, Issue 6, 2023. doi: [10.48047/ecb/2023.12.si6.74](https://doi.org/10.48047/ecb/2023.12.si6.74). (Available online: [Link](#))
6. Published paper on “Applications of AI and IoT in Renewable Energy”, in **European Chemical Bulletin (Scopus indexed)**, Vol. 12, Issue 4, 2023. doi: [10.48047/ecb/2023.12.si4.1295](https://doi.org/10.48047/ecb/2023.12.si4.1295). (Available online: [Link](#))

7. Published paper on “Web3 Chain Authentication and Authorization Security Standard (CAA)”, in **International Journal on Recent and Innovation Trends in Computing and Communication (Scopus indexed)**, Vol. 11, Issue 5, PP. 70-76, 2023. doi:10.17762/ijritcc.v11i5.6526. (Available online: [Link](#))
8. Published paper on “Blockchain-Based Framework for Interoperable Electronic Health Records for an Improved Healthcare System”, in **Sustainability journal (SCIE and Scopus indexed)**, Vol. 15, Issue 8, MDPI, 2023. (Available online: [Link](#))
9. Published paper on “Secure Data Transmission of Electronic Health Records Using Blockchain Technology”, in **Electronics journal (SCIE and Scopus indexed)**, Vol. 12, Issue 4: 1015, MDPI, 2023. (Available online: [Link](#))
10. Published paper on “Survey of Interoperability in Electronic Health Records Management and Proposed Blockchain Based Framework: MyBlockEHR” in **IEEE Access (SCIE and Scopus indexed)**, vol. 9, pp. 158367-158401, 2021. (Available online: [Link](#))

**We have got funding for this research work from Symbiosis International (Deemed University), Pune and Curtin University, Perth, Australia.**

### **Conference Papers Published in Scopus indexed journals (05)**

1. Published paper on “Towards Adoption of Green Blockchain with Emphasis on Blockchain Type, Consensus Protocols, Data Sharding and Smart Contracts”, in **IEEE Xplore** by 2023 IEEE International Conference on Blockchain and Distributed Systems Security (ICBDS) (pp. 1-8). (Available Online: [Link](#))
2. Published paper on “Privacy Preserved E-Voting System Using Blockchain” in “Proceedings of the International Conference on Smart Data Intelligence (ICSMDI 2021)”, 2021, **Elsevier Supported**. (Available Online: [Link](#))
3. Published paper on “Bandwidth Improvement of Multilayer Microstrip Patch Antenna by Using Capacitive Feed Technique for Broadband Applications” in proceedings of Techno-Societal 2020. **Springer**, Cham. (Available Online: [Link](#))
4. Published paper on “Comparative Study to Improve Antenna Parameters of Multilayer Micro strip Patch Antenna” in Techno-Societal 2016. ICATSA 2016. **Springer, Cham**. (Available Online: [Link](#))
5. Published paper on “Secured Communication in Vehicular Adhoc Networks (VANETs) using Blockchain” in IOP Conference series: Materials Science & Engineering, 1022 012067, 2021. (Available online: [Link](#))

### **Papers Published in UGC Approved International Journal (10)**

1. Published paper on “ChatGenie – An autonomous chatbot using AI with AI Detection and Image Generation” in **UGC approved** “International Journal of Novel Research and Development”, 2456-4184, Volume 8, Issue 5, 2023. (Available Online: [Link](#))
2. Published paper on “DeepFake Detection: A survey of countering malicious Deep-Fakes” in **UGC approved** “International Journal for Research in Applied Science & Engineering Technology (IJRASET)”, 2321- 9653;, Volume 10, Issue VI, 2022. (Available Online: [Link](#))

3. Published paper on “Covid-19 Face Mask Recognition using Live Camera and Face Mask Detection Using TensorFlow and Keras” in **UGC approved** “International Journal for Research in Applied Science & Engineering Technology (IJRASET)”, 2321- 9653;, Volume 10, Issue IV, 2022. (Available Online: [Link](#))
4. Published paper on “Presentation Summarizer: A Full-Fledged NLP Service” in **UGC approved** “International Research Journal of Engineering and Technology (IRJET)”, 2395- 0056;, Volume 09, Issue 07, 2022. (Available Online: [Link](#))
5. Published paper on “Automated Monitoring and Controlling of Greenhouse” in **UGC approved** “International Research Journal of Engineering and Technology (IRJET)”, 2429-2437, Volume 7, Issue 3, March 2020. (Available Online: [Link](#))
6. Published paper on “Sports Result Prediction System” in **UGC approved** “International Journal of Research in Engineering, Science and Management”, 36-37, Volume 2, Issue 1, ISSN (Online): 2581-5792, January 2019. (Available Online: [Link](#))
7. Published paper on “Fake Review Detection System Using Machine Learning” in **UGC approved** “International Journal of Research in Engineering, Science and Management”, 842-844, Volume 1, Issue 12, ISSN (Online): 2581-5792, December 2018. (Available Online: [Link](#))
8. Published paper on “Meta Map-Reduce using Boosting Algorithm” in **UGC approved** “International Journal of Innovations & Advancement in Computer Science”, 85-88, Volume 7, Issue 1, ISSN 2347-8616, January 2018. (Available Online: [Link](#))
9. Published paper on “SQUIRTLE: A Perceptive Embedded Unit” in **UGC approved** “International Journal of Innovations & Advancement in Computer Science”, 95-99, Volume 7, Issue 1, ISSN 2347-8616, January 2018.
10. Published Paper on “Content Centric Network: Solution over IP Network Issues” in International Journal of Current Engineering and Technology, Volume 4, 2097-2100, 2014. (Available Online: [Link](#))

### **Papers Published in National Journal (1)**

1. Published paper “Human Facial Gesture & Voice Command Based Desktop Control” in Journal of Information Knowledge and Research in Computer Engineering, Volume 4, 925-928, 2017. (Available Online: [Link](#))

### **Papers Presented in International Conference (6)**

1. Paper presented on “Autonomic VM Migration in Cloud Computing based on Energy Consumption” in International Conference on New Trends in Engineering & Technology (ICNTET) 2018.
2. Paper presented on “Wi-Fi Gesture Recognition System” in Souvenir for ICATSA (International Conference on Advanced Technologies for Societal Applications) - Techno societal 2016, 20&21 December at SVERI's COE, Pandharpur.
3. Paper presented on “MQAF: Modern Question Answering Forum” in Souvenir for ICATSA (International Conference on Advanced Technologies for Societal Applications) - Techno societal 2016, 20&21 December at SVERI's COE, Pandharpur.

4. Paper presented on “E-Doc Healthcare System” in Souvenir for ICATSA (International Conference on Advanced Technologies for Societal Applications)- Techno societal 2016, 20&21 December at SVERI’s COE, Pandharpur.
5. Paper presented on “Real Time Human Iris Aliveness Detection and Biometric template Protection” in Souvenir for ICATSA (International Conference on Advanced Technologies for Societal Applications)- Techno societal 2016, 20&21 December at SVERI’s COE, Pandharpur.
6. Paper presented on “Information Centric Networks: Future Internet” in Souvenir for ICST (International Conference on Science and Technology)-2K14 21&22 February at SBCOE, Indapur.

### **Papers Presented in National Conference (2)**

1. Paper on “Enhancing Data Security and Privacy through Blockchain and Machine Learning Integration” is presented at IGT National Conference at MIT ADT University, Pune, 2023.
2. Paper on “Grid Computing” is presented at IGT National Conference at MIT ADT University, Pune, 2023.

### **Reviewer for the Research Papers (5)**

1. Reviewer for 3<sup>rd</sup> International Conference on Advanced Computing Technologies and Applications-2023 (ICACTA) organized on 06-07 October. 2023
2. Reviewer for 1st International Conference on Integration of computational Intelligent System 2023.
3. Reviewer for 2021 IEEE Pune Section International Conference (PuneCon) organized on 16-19 Dec. 2021
4. Reviewed 16 IEEE Access papers and one of IEEE Transactions on Industrial Informatics.
5. Reviewed 2 papers of Peerj Journal

### **Professional Bodies Membership (3)**

1. Life Member of Indian Institute for Technical Education (ISTE) with membership number LM 102695
2. Lifetime Associate Member of Institution for Engineers (India) (IEI) with membership number AM 178069-5
3. One year Membership of Advanced Computing Machinery (ACM) from November 2024 to November 2025

### **Shivaji University Responsibilities (4)**

1. Worked as Shivaji University Examination Coordinator for April 2021 in Sanjay Ghodawat Group of Institutions, Atigre
2. Worked as Internal Senior Supervisor for E-mode Question Paper (SRPD) for Shivaji University Examination from 06/12/2019 to 15/12/2019 in Sanjay Ghodawat Group of Institutions, Atigre
3. Worked as Internal Senior Supervisor for Shivaji University Examination from 10/12/2018 to 22/12/2018 in Sanjay Ghodawat Group of Institutions, Atigre
4. Worked as Internal Senior Supervisor for Shivaji University Examination from 15/05/2018 to 21/05/2018 in Sanjay Ghodawat Group of Institutions, Atigre

### **MIT ADT University Responsibilities (7)**

1. Active member of Centre of Excellence in Blockchain
2. IT Coordinator
3. Association of Computer Engineering Students (ACES) faculty coordinator
4. Cybersecurity and Blockchain Club (CBC) faculty coordinator
5. Faculty Coordinator for Blockchain Specialization B.Tech. Program
6. Board of Studies (BoS) member as a program in-charge for Blockchain Specialization B.Tech. program
7. NAAC criteria 4 coordinator

### **Pimpri Chinchwad University Responsibilities (4)**

1. ACM Chapter Faculty coordinator
2. Timetable Coordinator
3. Faculty Coordinator Centre of Excellence for Artificial Intelligence
4. Academic Coordinator

### **Conducted sessions as a Resource Person (18)**

1. Delivered session on “Blockchain Technology” on 21<sup>st</sup> to 23<sup>rd</sup> March 2025, in FDP organized by J. J. Maqdam College of Engineering, Jasingpur.
2. Delivered session on “Blockchain Technology: Innovations and Applications” on 10<sup>th</sup> and 11<sup>th</sup> October 2024, in ISTE Approved One Week Faculty Development Program organized by Datta Meghe College of Engineering, Airoli, Navi Mumbai.
3. Delivered session on “Emerging Trends in Blockchain Technology” on 16<sup>th</sup> July 2024, in ISTE Approved One Week Short Term Training Program (STTP) in collaboration with IEEE Pune Blockchain Group and organized by Pimpri Chinchwad College of Engineering Pune.
4. Conducted the workshop on Java Programming on 14<sup>th</sup> and 15<sup>th</sup> May 2024 in Pimpri Chinchwad University, Pune
5. Delivered session on “Distributed Ledger Technology” on 4<sup>th</sup> to 11<sup>th</sup> December 2023, organized by Department of Artificial Intelligence & Data Science, Dr. D Y Patil Institute of Engineering and Management Research, Akurdi.
6. Delivered session on “Research Areas in Data Structures” on 28<sup>th</sup> October 2023 at P.D.E.A.’s College of Engineering, Manjari, Pune.
7. Delivered session on “Research Areas in Object Oriented Programming” on 28<sup>th</sup> October 2023 at P.D.E.A.’s College of Engineering, Manjari, Pune.
8. Delivered session in ISTE sponsored workshop on “Cyber Security and Blockchain Technology” on 20<sup>th</sup> and 21<sup>st</sup> July 2023 in KIT, Kolhapur
9. Delivered session on “Career Opportunities in Blockchain” on 03<sup>rd</sup> June 2023 in webinar organized by MIT ADT University, Pune.
10. Delivered session on “Blockchain Platforms- Fabric and DApps” on 19<sup>th</sup> April 2023 in workshop organized by Chaitanya Bharathi Institute of Technology, Hyderabad.
11. Delivered session on “Blockchain Application Development” on 06<sup>th</sup> April 2023 at VIIT, Pune
12. Delivered session on “Interoperability in the Blockchain” on 31<sup>st</sup> March 2023 in webinar organized by Symbiosis Institute of Technology, Lavale, Pune.
13. Delivered session on “Blockchain Technology” on 29<sup>th</sup> September 2022 in K J College of Engineering & Management Research, Pune.

14. Delivered session on “Blockchain and Cryptocurrencies” on 4th July 2022 in Pune Management Association, Pune.
15. Delivered session on “Blockchain Technology” from 25th March and 26th March 2022 in Sanjay Ghodawat University, Kolhapur.
16. Coordinated and delivered session on “Blockchain Bootcamp” from 24th January to 29th January 2022 in MIT ID.
17. Delivered session on “The Broad Insight on Blockchain Technology, Writing and Execution of Smart Contract for Ethereum” on 15th January 2022 in Nutan College of Engineering & Research, Pune.
18. Delivered session on “Blockchain Technology” on 24th June 2021 KIT’s College of Engineering Kolhapur

### **Other Significant Activities (4)**

1. Chaired the session in “Projectathon-National-Level project competition 2023” organized by Atharv College of Engineering, Mumbai on 04<sup>th</sup> March 2023.
2. Part of Guinness World Record of Largest Online Photo Album Holding an National Flag organized by Savitribai Phule Pune University, Pune from 11<sup>th</sup> August to 15<sup>th</sup> August 2022.
3. Member of Local Committee Arrangements in 4<sup>th</sup> IEEE Pune Section International Conference on Innovation in Engineering, Design and Holistic Education, organized on 16<sup>th</sup>-19<sup>th</sup> December 2021.
4. Chaired the session in Souvenir for ICATSA (International Conference on Advanced Technologies for Societal Applications)- Techno societal 2016, 20&21 December at SVERI’s COE, Pandharpur.

### **FDP / Workshop/ Seminar Organized (17)**

1. Coordinated as organizing committee member for “Project Expo – 2K23” event on 17<sup>th</sup> April 2023 in MIT Art, Design, and Technology University, Pune.
2. Coordinated as organizing committee member for “Persona Fest – 2023” event from 15<sup>th</sup> to 18<sup>th</sup> February 2023 in MIT Art, Design, and Technology University, Pune.
3. Organized “Industry Mentor Conclave-2023” for achieving Project Based Learning for student projects on 11<sup>th</sup> February 2023 in MIT ADT University, Pune.
4. Coordinated as organizing committee member for one week FDP on “Security +” from 19<sup>th</sup> to 23<sup>rd</sup> December 2022 in MIT Art, Design, and Technology University, Pune.
5. Coordinated as organizing committee member for National Level Hackathon on “Smart India Hackathon 2022” from 25<sup>th</sup> to 29<sup>th</sup> August 2022 in MIT Art, Design, and Technology University, Pune.
6. Organized and attended workshop on “Blockchain Technology - Unblocking the development with **Hyperledger Fabric**” dated 4th October - 8th October 2021.
7. Organized 2 days lead college sponsored workshop on “IoT with Raspberry” on 11<sup>th</sup> March 2020 & 12<sup>th</sup> March 2020 in in Sanjay Ghodawat Group of Institutions, Atigre.
8. Organized 2 days lead college sponsored workshop on “Drone Making” on 15<sup>th</sup> & 16<sup>th</sup> March 2019 in in Sanjay Ghodawat Group of Institutions, Atigre.
9. Organized 2 days FDP on “Machine Learning for Data Science” on 14<sup>th</sup> & 15<sup>th</sup> January 2019 in Sanjay Ghodawat Group of Institutions, Atigre.



10. Organized 2 days' Lecture workshop Sponsored by Indian Science Academy on "Recent Advances in Algorithms & Graph Theory with Respect to Machine Learning" on 21<sup>st</sup> -22<sup>nd</sup> December 2018 in Sanjay Ghodawat University, Atigre.
11. Organized three days FDP (Faculty Development Program) on "Cloud Computing with AWS" on 28<sup>th</sup> – 30<sup>th</sup> June 2018 in Sanjay Ghodawat University, Atigre.
12. Organized 2 days' workshop for students on "Android" on 13<sup>th</sup> -14<sup>th</sup> July 2018 in Sanjay Ghodawat Group of Institutions, Atigre.
13. Organized one week FDP (Faculty Development Program) on "Internet of Things using Raspberry Pi" on 24<sup>th</sup> -28<sup>th</sup> October 2017 in Sanjay Ghodawat Group of Institutions, Atigre.
14. Organized 2 days' workshop on "Ethical Hacking & Information Security" on 28<sup>th</sup> - 29<sup>th</sup> July 2017 in Sanjay Ghodawat Group of Institutions, Atigre.
15. Coordinated "Paper Presentation" event in National Level Solar Summit on 25<sup>th</sup> March 2017 in Sanjay Ghodawat Group of Institutions, Atigre.
16. Organized 2 days FDP (Faculty Development Program) on "Data Analytics" on 13<sup>th</sup> -14<sup>th</sup> January 2017 in Sanjay Ghodawat Group of Institutions, Atigre.
17. Coordinated "Project Exhibition / Competition" event in Innovation and Entrepreneurship Development Cell on 25<sup>th</sup> March 2017 in Sanjay Ghodawat Group of Institutions, Atigre.

#### **FDP / Workshop/ Seminar Attended**

FDP: 09

STTP: 02

Workshop:10

Seminar: 1

**Rahul Ganpatrao Sonkamble**