

# Rahul Mishra

Curriculum Vitae



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## Education

- 2018–2023 **Ph.D. (Awarded - May, 2023), Computer Science & Engineering, Indian Institute of Technology (ISM) - (Govt. of India)**, Dhanbad, India, .  
**Thesis title - "Developing Security Paradigms for Efficient Data Storage in Cloud Environment"**, under the supervision of **Dr. Dharavath Ramesh (Associate Professor, IIT(ISM))**, Dhanbad, India
- 2014–2016 : **Master of Technology, Computer Science & Engineering with specialization in information security, Indian Institute of Technology (ISM) - (Govt. of India)**, Dhanbad, India, , with **CGPA 8.40**.
- 2009–2013 : **Bachelor of Technology, Computer Science & Engineering, Guru Jambheshwar University of Science and Technology (Govt. of Haryana)**, Hisar, India, passed with **71.20%**.
- 2008 : **Senior Secondary Examination, CBSE, Delhi, India, Passed with distinction (82.00%)**.
- 2006 : **Higher Secondary Examination, HBSE, Haryana, India, Passed with distinction (88.00%)**.

## Teaching Experience (2+ years)

- February, 2024 **Assistant Professor**.  
– Till date Dept. of Electronics & Computer Engineering, National Institute of Advanced Manufacturing Technology (NIAMT - Deemed university under Distinct Category under MoE), Ranchi, Jharkhand, India
- March, 2023 – **Assistant Professor**.  
January, 2024 Dept. of Computer Science and Engg., Graphic Era (Deemed to be University) (**Times Higher ranking - 601 - 800, NIRF (India) - 55**), Dehradun, Uttarakhand, India
- August, 2017 **Assistant Professor (On Contract)**.  
– May, 2018 Dept. of Computer Science and Engg., National Institute of Technology (An Institute of National Importance), Delhi, India
- July, 2016 – **Adhoc faculty**.  
May, 2017 Dept. of Computer Science and Engg., Malaviya National Institute of Technology (MNIT) (An Institute of National Importance), Jaipur, India

## Project Submitted

- Title: **Secure Spatial Data Acquisition and Aggregation with Blockchain Platform using Federated Learning.**
- Role: **Principal Investigator**
- Funding agency: **DST SERB Govt. of India, Project amount - 22,78,500.00**
- Funding agency: **DST**

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## Project Research Experience

April, 2021 – **Secure and dynamic privacy-preserving public auditing schemes for IOT enabled data in clouds.** .  
March, 2022

Analyzing different modalities of IoT enabled cloud storage environment, along with efficient "Fibonacci tree structure" to achieve secure and dynamic public auditing in cloud storage. (**Research Grant** by PMU Cybersecurity Center Research Grant (PCC-Grant-202113), Prince Mohammad Bin Fahd University, Kingdom of Saudi Arabia)

Principal Investigator : **Dr. Dharavath Ramesh**, Associate Professor, Department of Computer Science & Engineering, IIT Dhanbad ([Personal Web-page](#))

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## Publications

### Accepted Journal Articles

- 2023 **Rahul Mishra**, Dharavath Ramesh, Salil S Kanhere, and Damodar Reddy Edla. Enabling efficient deduplication and secure decentralized public auditing for cloud storage: A redactable blockchain approach. *ACM Transactions on Management and Information Systems*, pages 1–37. ACM, 2023, ( **Impact Factor:2.5** ).
- 2023 **Rahul Mishra**, Dharavath Ramesh, Damodar Reddy Edla, and Lianyong Qi. Vaccinechain: A checkpoint assisted scalable blockchain based secure vaccine supply chain with selective revocation. *Journal of Industrial Information Integration*. Elsevier, 2023, ( **Impact Factor:15.7** ).
- 2023 **Rahul Mishra**, Dharavath Ramesh, Paolo Bellavista, and Damodar Reddy Edla. Redactable blockchain-assisted secure data aggregation scheme for fog-enabled internet-of-farming-things. *IEEE Transactions on Network and Service Management*. IEEE, 2023, ( **Impact Factor:5.3** ).
- 2022 **Rahul Mishra**, Dharavath Ramesh, Damodar Reddy Edla, and Lianyong Qi. Ds-chain: A secure and auditable multi-cloud assisted ehr storage model on efficient deletable blockchain. *Journal of Industrial Information Integration*, page 100315. Elsevier, 2022, ( **Impact Factor:15.7** ).
- 2022 **Rahul Mishra**, Dharavath Ramesh, and Damodar Reddy Edla. Fibonacci tree structure based privacy preserving public auditing for iot enabled data in cloud environment. *Computers and Electrical Engineering*, volume 100, page 107890. Elsevier, 2022, ( **Impact Factor:4.3** ).
- 2022 **Rahul Mishra**, Dharavath Ramesh, and Damodar Reddy Edla. Blockchain assisted privacy-preserving public auditable model for cloud environment with efficient user revocation. *Cluster Computing*, pages 1–25. Springer, 2022, ( **Impact Factor:4.4** ).
- 2021 **Rahul, Mishra**, Dharavath Ramesh, and Damodar Reddy Edla. Dynamic large branching hash tree based secure and efficient dynamic auditing protocol for cloud environment. *Cluster Computing*, volume 24, pages 1361–1379. Springer, 2021, ( **Impact Factor:4.4** ).
- 2021 **Rahul Mishra**, Dharavath Ramesh, and Damodar Reddy Edla. Bb-tree based secure and dynamic public auditing convergence for cloud storage. *The Journal of Supercomputing*, volume 77, pages 4917–4956. Springer, 2021, ( **Impact Factor:3.4** ).
- 2021 Dharavath Ramesh and **Rahul Mishra**. Pcs-abe (t, n): a secure threshold multi authority cp-abe scheme based efficient access control systems for cloud environment. *Journal of Ambient Intelligence and Humanized Computing*, volume 12, pages 9303–9322. Springer, 2021, ( **Impact Factor:3.704** ).

### Submitted and In Progress Articles

- 2023 **Rahul Mishra, Dharavath Ramesh, Damodar Reddy Edla, and Lianyong Qi**, Blockchain Enabled Secure Pharmaceutical Supply Chain Framework with Traceability: An Efficient Searchable Approach, In *Journal of Cleaner Production* , Elsevier. [**Quartile Q1, IF: 11.7**], (**Under Review**).

- 2024 **Rahul Mishra, Dharavath Ramesh, Paolo Bellavista**, Secure and Intelligent Framework for Agriculture 5.0: An Amalgamation of Fog-Drone and Scalable Blockchain Architecture, **(Research Work is continuing)**.

### In Conference Proceedings

- 2022 **Rahul Mishra**, Dharavath Ramesh, and Nazeeruddin Mohammad. Rbda: Redactable-blockchain based secure data aggregation scheme for iot enabled cloud paradigm. In *2022 IEEE International Conference on Pervasive Computing and Communications Workshops and other Affiliated Events (PerCom Workshops)*, pages 409–414. IEEE (**Core Rank - A\***), **Italy**, 2022.
- 2020 **Rahul Mishra**, Dharavath Ramesh, and Damodar R Edla. Deletable blockchain based secure ehr storage scheme in multi-cloud environment. In *2020 IEEE 22nd International Conference on High Performance Computing and Communications (IEEE HPCC)*, pages 1057–1064. IEEE (**Core Rank - B**), **Fiji**, 2020.
- 2020 **Rahul Mishra**, Dharavath Ramesh, Edla, and Damodar Reddy. Binary binomial tree based secure and efficient electronic healthcare record storage in cloud environment. In *20th International Conference on Innovations for Community Services*, pages 173–186. Springer (**Core Rank - B**), **Germany**, 2020.

## Academic Achievements & Recognitions

- 2014, 2016 **Graduate Aptitude Test in Engineering (GATE) Qualified in the Subject - Computer Science & Engineering.**
- 2017 **UGC - National Eligibility Test (NET) Qualified in the Subject - Computer Science & Applications.**
- 2022 Granted **Student Participation Grant** from IEEE Technical Community on Parallel Processing (TCPP) to represent the accepted work at IEEE PerCom - 2022, Italy.

## Edited Book & Special Sessions

- 2022 Conduct special sessions in **"AI DRIVEN BLOCKCHAIN: AN EMERGING TREND FOR COMPUTATIONAL INTELLIGENCE"**, in conjunction with International Conference on Emerging Techniques in Computational Intelligence (ICETCI), IEEE - 2022, during 25-27 August 2022 at **Mahindra University, Hyderabad, India**.
- 2024 **Editor of Book** - "Sustainable Agriculture 5.0: An application of IoT, Machine Learning, and Blockchain", Publisher CRC Press, Taylor & Francis.

## Computer skills

Programming Languages	Solidity, C, C++
Web Technologies	HTML 5, JSP, Javascript, React JS
Database	SQL, MySQL

## TPC member & Reviewer

- 2022 TPC member in <sup>6<sup>th</sup></sup> International Conference on Computer Applications and Information Security (ICCAIS'2023), Tunisia
- 2022 Reviewed articles from Computer Standard & Interfaces, Journal of Parallel and Distributed Computing, Cluster Computing, IEEE TFS, Journal of Supercomputing, Plos One, Scientific Reports (Nature), IEEE TNSM and many more.

## Referees

**Dr. Dharavath Ramesh (Ph.D Supervisor)**  
*Associate Professor, Department of  
Computer Science & Engineering*  
Indian Institute of Technology (ISM), India  
✉ drramesh@iitism.ac.in

**Dr. Damodar Reddy Edla (Ph.D Co-Supervisor)**  
*Associate Professor and DSW, Department of  
Computer Science*  
National Institute of Technology, Goa, India  
✉ dr.reddy@nitgoa.ac.in

**Prof. Paolo Bellavista**  
*Full Professor, Department of  
Computer Science and Engineering*  
University of Bologna,  
Bologna - Italy  
✉ paolo.bellavista@unibo.it