

Faculty Profile

Rishabh Gupta

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Department of Computer Application

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ACADEMIC QUALIFICATION

Degree	Subject	University	Year of passing
Postdoctoral	Computer Science	The University of Aizu, Japan	2023
PhD	Computer Science	National Institute of Technology (NIT), Kurukshetra	2023
MCA	Computer Application	Guru Jambheshwar University of Science and Technology, Hisar (GJU)	2015

RESEARCH INTERESTS

- Cloud Computing
- Information Security and Privacy
- Neural Networks
- Machine Learning Applications,
- Evolutionary Optimization Algorithms

PUBLICATIONS

Journals

- 1) Kishu Gupta, Deepika Saxena, **Rishabh Gupta**, Jatinder Kumar, and Ashutosh Kumar Singh, "FedMUP: Federated Learning driven Malicious User Prediction Model for Secure Data Distribution in Cloud Environments", *Applied Soft Computing* (SCI, Q1).

- 2) Kishu Gupta, Deepika Saxena, **Rishabh Gupta**, and Ashutosh Kumar Singh, "MAIDS: Malicious Agent Identification-based Data Security Model for Cloud Environments", *Cluster Computing*, 2024, 1-18 (SCI, Q1).
- 3) Deepika Saxena, Ishu Gupta, **Rishabh Gupta**, Ashutosh Kumar Singh, and Xiaoqing Wen, "An AI-Driven VM Threat Prediction Model for Multi-Risks Analysis Based Cloud Cybersecurity", *IEEE Transactions on Systems, Man, and Cybernetics* (SCI, Q1).
- 4) Jatinder Kumar, **Rishabh Gupta**, Deepika Saxena, and Ashutosh Kumar Singh, "Power Consumption Forecast Model using Ensemble Learning for Smart Grid", *Journal of Supercomputing* (SCI, Q1).
- 5) Ashutosh Kumar Singh, Sakshi Chhabra, **Rishabh Gupta**, and Deepika Saxena, "A Reliable Client Detection System during Load Balancing for Multi-tenant Cloud Environments", *SN Computer Science*, 2022 (SCOPUS).
- 6) **Rishabh Gupta**, Ishu Gupta, Ashutosh Kumar Singh, Deepika Saxena, and Chung-Nan Lee, "An IoT-Centric Data Protection Method for Preserving Security and Privacy in Cloud", *IEEE Systems Journal* (SCI, Q1).
- 7) **Rishabh Gupta**, Deepika Saxena, Ishu Gupta, and Ashutosh Kumar Singh, "Differential and Tri-Phase adaptive learning-based Privacy Preserving Model for Medical Data in Cloud Environment", *IEEE Networking Letters* (SCI, Q1).
- 8) **Rishabh Gupta**, Deepika Saxena, Ishu Gupta, Aaisha Makkar, and Ashutosh Kumar Singh, "Quantum Machine Learning Driven Malicious User Prediction Model for Secure Cloud Communications", *IEEE Networking Letters*, 2022 (SCI, Q1).
- 9) **Rishabh Gupta**, Ishu Gupta, Deepika Saxena, and Ashutosh Kumar Singh, "A Differential Approach and Deep Neural Network based Data Privacy-Preserving Model in Cloud Environment", *Journal of Ambient Intelligence & Humanized Computing*, 2022, 1-16 (SCI, Q1).
- 10) **Rishabh Gupta**, and Ashutosh Kumar Singh, "A Differential Approach for Data and Classification Service based Privacy-Preserving Machine Learning Model in Cloud Environment", *New Generation Computing*, 2022, 1-28 (SCI, Q3).
- 11) Ashutosh Kumar Singh, and **Rishabh Gupta**, "A Privacy-Preserving Model based on Differential Approach for Sensitive Data in Cloud Environment", *Multimedia Tools and Applications*, 2022: 1-24 (SCI, Q1).

- 12) **Rishabh Gupta**, and Ashutosh Kumar Singh, "Differential and access policy-based privacy-preserving model in cloud environment", *Journal of Web Engineering*, 2022: 609-632 (SCI, Q3).
- 13) Ishu Gupta, **Rishabh Gupta**, Ashutosh Kumar Singh, and Rajkumar Buyya, "MLPAM: A Machine Learning and Probabilistic Analysis Based Model for Preserving Security and Privacy in Cloud Environment", *IEEE Systems Journal* 15, no. 3, (2020): 4248-4259 (SCI, Q1).
- 14) Prachee Atmapoojya, Utkarsh Saini, Rohit Patidar, **Rishabh Gupta**, Sakshi Chhabra, and Ashutosh Kumar Singh, "Data Privacy Preservation Model using Noise Concept in Cloud", *International Journal of Engineering Research & Technology*, Volume 11, Issue 03, pp. 326-329, March 2022.
- 15) Prachee Atmapoojya, Utkarsh Saini, Rohit Patidar, **Rishabh Gupta**, Ashutosh Kumar Singh, "Differential Privacy based Preserving Data on Cloud Environment", *International Journal of Engineering Research & Technology*, Volume 10, Issue 05, pp. 780-785, May 2021.
- 16) Badal Pardhan, Bhagwan Singh, Abhishek Bhorla, **Rishabh Gupta**, and Ashutosh Kumar Singh, "A Comparative Study on Cipher Text Policy Attribute based Encryption Schemes", *International Journal of Engineering Research & Technology*, Volume 10, Issue 05, pp. 786-790, May 2021.
- 17) Deepika, Rajnesh Malik, Saurabh Kumar, **Rishabh Gupta**, and Ashutosh Kumar Singh, "Implementation of an enhanced Ciphertext Policy Attribute-Based Encryption with User Repudiation Method", *International Research Journal of Modernization in Engineering Technology and Science*, pp. 99-109, Feb 2021.
- 18) Dikshika Rani, Aman Singh Chauhan, Akash Kumar, **Rishabh Gupta**, and Ashutosh Kumar Singh, "Privacy-Preserving Deep Learning on Cloud with Multiple Data Providers", *International Research Journal of Modernization in Engineering Technology and Science*, pp. 46-54, Feb 2021.
- 19) **Rishabh Gupta**, and Ashutosh Kumar Singh, "A Privacy-Preserving Model for Cloud data storage through Fog Computing", *International Journal of Computer Aided Engineering and Technology*, Volume 17, Issue 03, pp. 348-359, 2022 (SCOPUS).

Conferences

- 20) **Rishabh Gupta**, Deepika Saxena, and Ashutosh Kumar Singh, "A Data Privacy-Preserving Model driven on Differential Approach in Cloud Environment", *International Conference on Green Energy, Computing and Intelligent Technology (GEN-CITY-2023)*, July 10-12, 2023, Malaysia (Scopus Indexed) (**Best Paper Award**).
- 21) Nisha, Vidushi Gupta, Kanav Sandhir, **Rishabh Gupta**, Sakshi Chhabra, and Ashutosh Kumar Singh, "Privacy-Preserving Ensemble Learning Classification Model for Mental Healthcare", *International Conference on Parallel, Distributed and Grid Computing (PDGC-2022)*, November. 25-27, 2022, India (Scopus)
- 22) **Rishabh Gupta**, and Ashutosh Kumar Singh, "A Differential Privacy-based Secure Data Sharing Model in Cloud Environment", *IEEE Conference on Information & Communication Technology (IEEE CICT-2022)* November 18-20, 2022, India (Scopus).
- 23) **Rishabh Gupta**, and Ashutosh Kumar Singh, "Privacy-Preserving Cloud Data Model based on Differential Approach", *Second IEEE International conference on Power, Control, and Computing Technologies (ICPC2T-2022)*, Mar. 1-3 2021, India (Scopus).
- 24) Anjali Tripathi, Upasana Singh, Garima Bansal, **Rishabh Gupta**, and Ashutosh Kumar Singh. "HEDCM: Human Emotions Detection and Classification Model from Speech using CNN", *International Semantic Intelligence Conference (ISIC2021)*, Feb. 25-27 2021, India.
- 25) Deepika, Rajnesh Malik, Saurabh Kumar, **Rishabh Gupta**, and Ashutosh Kumar Singh, "A Review on Data Privacy using Attribute-Based Encryption" *International Conference on Data Analysis and Management (ICDAM-2020)*, available at SSRN 3606261, May 20, 2020, India.
- 26) Anjali Tripathi, Upasana Singh, Garima Bansal, **Rishabh Gupta**, and Ashutosh Kumar Singh, "A Review on Emotion Detection and Classification using Speech", *International Conference on Data Analytics and Management (ICDAM-2020)*, available at SSRN 3601803, May 15, 2020, India.
- 27) Aman Singh Chauhan, Dikshika Rani, Akash Kumar, **Rishabh Gupta**, and Ashutosh Kumar Singh, "A Survey on Privacy-Preserving Outsourced Data on Cloud with Multiple Data Providers", *International Conference on Data Analytics and Management (ICDAM 2020)*, available at SSRN 3601814, May 15, 2020, India.

ACADEMICS ACHIEVEMENTS / SCHOLARSHIPS

- Awarded the **Senior Research Fellowship (SRF)** by the University Grants Commission (UGC), Government of India.
- Qualified **UGC- JRF NET** Computer Science and Applications Exam for Assistant Professor in 2017; and received UGC Fellowship.
- Qualified twice **Graduate Aptitude Test in Engineering (GATE)** 2016 and 2017, Computer Science and Engineering.

SEMINAR/WORKSHOP

- Attended an FDP on Project Excellence Guide: Digital Marketing organized by the MLR Institute of Technology, Dundigal - Hyderabad in Collaboration with ExcelR Edtech Pvt. Ltd. from October 21-25, 2024.
- Attended a Workshop on "Research & Funding: Proposal Writing Techniques", organized by the SRM IST, Delhi-NCR Campus, Ghaziabad from May 9-11, 2024.
- Attended an FDP on Research & Innovation: Proposed Writing Tools, Technique and Funding organized by the Department of Chemistry, SRM IST, Delhi-NCR Campus, Ghaziabad from March 11-16, 2024.
- Attended a Workshop on "Promoting Research Excellence in Academics across West Bengal", organized by the West Bengal State Higher Education Council, West Bengal, during August 16-17, 2022.
- Attended a Workshop on "Computer Science/I.T. in the light of NEP 2020 & Indian Knowledge Systems", organized by the Department of Computer Applications, National Institute of Technology, Kurukshetra, during May 25-26, 2022.
- Attended a Short-Term Course on "Research Methodologies and Scientific Research Writing using LaTeX", organized by the Department of Electronics and Communication Engineering, National Institute of Technology, Kurukshetra, during March 12-16, 2022.
- Attended a Webinar on "Latest Trends in Computer Science Education & Research", organized by Department of Computer Science & Engineering, Radha Govind University, Ramgarh, Jharkhand, India, from 30th October, 2021.
- Attended a Faculty Development Program (FDP) on "Data Sciences and Its Industrial Applications", at National Institute of Technology Jamshedpur, from 01th to 05th October, 2021.

- Attended an FDP on "Internet of Things", at J. C. Bose University of Science and Technology YMCA, from 13th to 17th September, 2021.
- Attended an FDP on "Cyber Physical Security for Critical Infrastructure: Smart Grid", at Indian Institute of Information Technology Allahabad, from 2th to 6th August, 2021.
- Attended a Short-Term Course on "Advances in Biometric Security and Image Processing", organized by the Department of Computer Science and Applications, Kurukshetra University, Kurukshetra, during March 15-19, 2021.
- Attended a Webinar on "Big data Analytics", organized by Faculty of Engineering, Pacific Academy of Higher Education and Research University, Udaipur, from 8 August 2020.
- Attended a Webinar on "Digital Marketing", organized by Faculty of Engineering, Pacific Academy of Higher Education and Research University, Udaipur, from 22th August 2020.
- Attended an FDP on "Deep Learning & Computational Intelligence in Internet Era", organized by the Department of Computer Science and Engineering, G. B. Pant Institute of Engineering & Technology, Pauri Garhwal, Uttarakhand during July 27 - 31, 2020.
- Attended a Webinar on "Writing a Research Grant Proposal", organized by Department of Computer Science & Engineering, SRM University, Delhi-NCR, Sonapat, from 15th July, 2020.
- Attended an FDP on Recent Advancements in Communications & Wireless Networks organized by Department of Electronics & Communication Engineering, NIT Kurukshetra during 10th to 15th February, 2020.