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Researchgate: https://www.researchgate.net/profile/Kriti-Jaiswal-3?ev=prf_overview

RESEARCH INTERESTS

- Internet of Things
- Artificial Intelligence
- Machine Learning
- Cloud Computing
- Cyber Security
- Smart Agriculture
- Wireless Networks

TECHNICAL SKILLS

Research

Teaching

Programming

MATLAB and Contiki/Cooja

MS Office

LANGUAGES

- English
- Hindi

KRITI JAISWAL

Assistant Professor

Department of Computer Applications

Bappa Sri Narain Vocational Post Graduate College, Lucknow

Professional Summary

Kriti Jaiswal is an Assistant Professor in the Department of Computer Applications at Bappa Sri Narain Vocational Post Graduate College, Lucknow. I am also pursuing her Ph.D. in Computer Science at the University of Lucknow, with 5+ years of research experience and teaching experience. My primary research interests include Internet of Things (IoT), Artificial Intelligence (AI), Wireless Sensor Networks, energy-efficient computing, data aggregation, and Smart Agriculture. I have published research in Springer, IEEE, Scopus-indexed, and Web of Science-indexed, venues along with three issued intellectual property registrations. Recipient of the Shodh Medha Scholarship and a Best Paper Award, with a strong commitment to quality teaching, student mentoring, interdisciplinary research, and sustainable IoT-based solutions.

Research Snapshot

2+

Years Teaching

5+

Years Research

11+

Research Publications

1

Shodh Medha Scholarship

1

Best Paper Award

3

Patents

Teaching Experience

Assistant Professor

Bappa Sri Narain Vocational P.G. College, Lucknow

Duration: August 2026 –Present

Sri Jai Narain Misra P.G. College, Lucknow

Duration: 2 Years (January 2023 –January 2025)

- Taught undergraduate courses for B.Sc. (Computer Science) students.
- Delivered theory lectures and practical laboratory sessions.
- Prepared lesson plans, lecture notes, assignments, tutorials, and practical manuals.
- Conducted internal assessments, practical examinations, and evaluated student performance.
- Mentored undergraduate students in academic projects and career guidance.
- Maintained course files and academic documentation.
- Participated in departmental quality improvement initiatives.

Academic & Administrative Responsibilities

- Member, Website Committee.
- Member, Cultural Committee.
- Member, Admission Committee (B.Sc. Computer Science).
- Admission counselling and student orientation.
- Departmental academic planning and coordination.
- Organized academic and cultural activities.

Academic Qualifications

Degree	Institution	University	Year
Ph.D. (Pursuing) (Recipient of the Shodh Medha Scholarship)	University of Lucknow	University of Lucknow	Present
NET	NA	UGC	2023
M.Voc.	National P.G. College	University of Lucknow	2020
B.Sc.	Mahila Vidyalaya Degree College	University of Lucknow	2018

Subjects Competent to Teach

Programming in C

Python

Data Structures

DBMS

Design and Analysis of Algorithm

Operating Systems

Computer Networks

Software Engineering

Internet of Things

Cloud Computing

Artificial Intelligence

Cyber Security

Web Technologies

Numerical and Reasoning Ability

Research Profile

- Ph.D. Research Scholar, University of Lucknow.
- More than 5 years of research experience.
- 12+ research publications in reputed journals and conferences.
- Publications in Springer Nature, IEEE, Scopus Indexed, and Web of Science indexed venues.
- Research areas include Internet of Things (IoT), Artificial Intelligence, Cloud Computing, Cyber Security, Wireless Sensor Networks, Smart Agriculture, and Blockchain.
- Actively engaged in interdisciplinary research and academic collaborations.

Patents & Intellectual Property

- **IoT-Based Device for Continuous Monitoring of Cyber-Attacks** Application/Registration No. **476407-001**, issued 05 Jan 2026. Inventors: Dr. Puneet Misra, **Kriti Jaiswal**, Dr. Shambhavi Misra.
- **IoT-Based Medical Imaging Monitoring and Control Panel** — Application/Registration No. **476406-001**, issued 17 Feb 2026. Inventors: Dr. Puneet Misra, **Kriti Jaiswal**, Dr. Siddharth Chaurasia.
- **Wearable Device to Analyse Customer Emotion** — Application/Registration No. **458413-001**, issued 23 Jul 2025. Inventors: Dr. Puneet Misra, Ms. Ayushi Chaurasia, Mr. Mohd. Usman, **Kriti Jaiswal**, Dr. Siddharth Chaurasia.

Research Publications

11+

Research Publications

4

Indexing Databases (Springer, IEEE, Scopus, WoS)

- Research publications in Springer Nature conferences and book series.
- IEEE international conference publications.
- Scopus Indexed conference proceedings.
- Web of Science indexed publications.
- Research on AI, IoT, Cloud Computing, Smart Agriculture, Cyber Security, and Emerging Technologies.

Complete publication list:

- Jaiswal, K., et al., (2026), "Next-Generation IoT Energy Efficiency: Challenges, Innovations, and Prospects", International Conference on Artificial Intelligence and Networking (ICAIn-2026), (Communicated)
- Jaiswal, K., et al., (2026) "HCAEA: An Energy-Efficient Data Aggregation Framework for IoT-Based Smart Agriculture Systems", International Journal of Autonomous and Adaptive Communications Systems, (Communicated)
- Jaiswal, K., et al., (2026), "Exploring the Factors Affecting Usage and Acceptance of IoT Based Wearable Devices", International Journal of Applied Decision Sciences, (Communicated)
- Jaiswal, K., et al., (2024), "Implementing IOT for Energy Efficient Smart Street Light Management", 7th International Conference on Innovative Computing and Communication (ICICC-2024), (**Springer**)
- Jaiswal, K., et al., (2023), "A Step Towards Smart Farming: Unified Role of AI and IoT", International Conference on Computer Vision and Robotics, (**Springer Nature**)
- Jaiswal, K., et al., (2022), "NBloT: Transitioning from IoT to an Eco-Friendly IoT Approach" International Conference on Organic Electronics (ICOE2022), (**Scopus, Web of Science**)
- Jaiswal, K., et al., (2022), "A Novel Computation Offloading Under 6G LEO Satellite-UAV based IoT," 2022 3rd International Conference on Computation, Automation and Knowledge Management (ICCAKM), (**IEEE/Scopus**)
- Jaiswal, K., et al., (2022), "Virtual and Augmented Reality Infused in AEC Ir 4.0," 2022 3rd International Conference on Computation, Automation and Knowledge Management (ICCAKM), (**IEEE/Scopus**)
- Jaiswal, K., et al., (2022), "Towards Smart Home Personal Assistants: Fueled by Natural Language Processor (NLP) and Blockchain Technology", ICPS 2022 (International Conference on Interdisciplinary Cyber Physical Systems), DOI 10.1109/ICPS55917.2022.00029 (**IEEE**)

- Jaiswal, K., et al., (2022), "Cloud Computing: Exploration of Security Issues with Alleviating Techniques", CIME-2022 (International Conference on "Contemporary Innovations in Mechanical Engineering"), **(Scopus), (Received the Best Paper Award)**
- Jaiswal, K., et al., (2021), "A Study on the Role of Artificial Intelligence and Blockchain in the Education Sector," International Research Journal of Commerce, Arts and Science, Volume 12, Issue 4, ISSN 2319 – 9202.
- Jaiswal, K., et al., (2021), "A Literature Review on Fraud Cases in Banking Sector", International Research Journal of Science Engineering and Technology, Volume 11, Issue 1, ISSN 2454-3195.
- Jaiswal, K., et al., (2020), "Some Common Software Security Risks Factors at Design Phase", International Conference on Computing, Communication and Information Technology (I3CIT 2020), ISBN 978-93-5407-928-3.
- Jaiswal, K., et al., (2020), "Cyber-Security Challenges and it's Need in Smart Security", International E-Symposium on Recent Advancements in Information and Communication Technology (RAICT-2020)

Awards & Achievements

Shodh Medha Scholarship

Best Paper Award

Cloud Computing: Exploration of Security Issues with Alleviating Techniques (CIME-2022)

- Published in Springer, IEEE, Scopus Indexed and Web of Science indexed venues.
- Actively participated in national and international conferences.
- Contributed to multidisciplinary research in Computer Science.

Technical Skills

Programming

C, Python, SQL

Research Tools

MATLAB, MS Office, LaTeX, Contiki/Cooja

Research Areas

AI, IoT, Cloud Computing

Specialization

Networking

Faculty Development Programs & Conferences Attended

- Attended One Day National Webinar on “Advanced AI-Powered Plagiarism Detection & Prevention System by DrillBit” jointly organised by Directorate Research, IQAC and E-Library in collaboration with APSU NDLI Club, Rewa on 19-06-2024.
- Attended One Week International Faculty Development Program on “Digital Learning with Multidisciplinary Approaches” organized by JSS Noida from 12-17 June 2020.
- Attended Online International Webinar on “Environmental Justice in Global Context(s)” organized by International Association of Methodist Schools, Colleges, and Universities.
- Attended One Week Online Workshop on “Next Generation Software Tools & Trends for Industrial Solutions: Current Practices” organized by Department of Computer Science and Engineering, Government College of Engineering, Aurangabad.
- Attended A Three-Day National Level Workshop on “The Future Technology Stack- AI, ML & NLP” organized by SAI Spurthi Institute of Technology, Telangana.
- Attended National Level Webinar on “Intellectual Property Rights” organized by Internal Quality Assurance Cell & Research Cell, Sankara College of Science and Commerce, Coimbatore, Tamilnadu, India on 2 June 2020.
- Attended webinar on “Research Ethics and Academic Integrity” organized by Government Kakatiya PG College, Jagdalpur, Chhattisgarh on 9 June 2020.
- Attended National Seminar on “Changing Paradigm of Higher Education in India: Issues and Challenges with Special Reference to Uttar Pradesh” organized by Lucknow University
- Associated Colleges Teachers’ Association (LUACTA) In Association with National P.G. College, Lucknow, India.
- Attended Webinar on “Exploring Data Science with Python Machine Learning” organized by Department of IT, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow during 28th May 2020.
- Attended National level Webinar on “Impact of Covid-19 on Indian Society and Culture” organized by Department of Sociology, Ramji Sahai P.G. College Rudrapur-Deoria, India.
- Attended Webinar on “Getting Industry Ready with AI, ML, Robotics & IoT Technologies” organized by Dr.M.C. Saxena Group of Colleges Lucknow on 13 June 2020.
- Attended Three days Webinar on “Machine Learning” organized by Department of Computer Science, Parvathaneni Brahmayya Siddhartha College of Arts & Science.
- Attended Webinar on “Digital Transformation Through Data Science & Cyber Security” organized by Pandit Deendayal Petroleum University.
- Attended One Day Online Webinar on “Introduction to Server Side Programming” organized by the Department of Computer Science and Engineering, Gnanamani College of Technology, Tamilnadu, India.
- Attended “Three Days Ethical Hacking Workshop” organized by Jetking, Aliganj Lucknow.
- Attended a Session on “Soft Skills: The Essential of Survival in Corporate Jungle” organized by IILM Academy of Higher Learning, Lucknow in the Live Webinar Series.

Teaching Philosophy

I believe in creating a student-centered learning environment that combines theoretical knowledge with practical applications. My teaching approach emphasizes problem-solving, critical thinking, collaborative learning, and the effective use of emerging technologies to prepare students for higher education, research, and industry careers.

Research Statement

My research focuses on Internet of Things (IoT), Artificial Intelligence, Cloud Computing, Smart Agriculture, Wireless Sensor Networks, and Cyber Security. I am particularly interested in developing intelligent, energy-efficient, and sustainable computing solutions through interdisciplinary research and industry collaboration.

Declaration

I hereby declare that the information furnished above is true and correct to the best of my knowledge and belief.

Date: _____

(Kriti Jaiswal)