



Name: Dr. Priti Kumari

Designation: Associate Professor & Head of Department

Department: Computer Science and Engineering

Phone No(s): (+91) 9718110378

Email: priti19sep@gmail.com

Qualifications: PhD in CSE from Jaypee University, Noida

Experience: 7+ years

Area of Interest: Distributed Computing, Cloud computing, Fault tolerance, Machine Learning, Deep Learning

Publication: 20+

Book/Book Chapter: 6

Patent: 5

Dr. PRITI KUMARI

PROFILE

Seeking a challenging position to utilize my skills and abilities in the area of Teaching and Research that offers professional growth while being resourceful, innovative, and flexible.

Mo. No. +91-9718110378

E-mail:

priti19sep@gmail.com

PERSONAL DETAILS

Marital Status: Married

D.O.B: 02-Jan-1988

ASSISTANT PROFESSOR & HOD

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

*ASHOKA INSTITUTE OF TECHNOLOGY & MANAGEMENT VARANASI (U.P),
INDIA*

QUALIFICATION

Full-time PhD (Computer Science and Engineering) from Jaypee Institute of Information Technology, Noida, 2021

PRESENT POSITION:

Working as an Assistant Professor & Head of Department, Department of Computer Science & Engineering, Ashoka Institute of Technology & Management Varanasi (U.P), India from 10th September 2021.

OTHER WORK EXPERIENCE

- **Worked as a Research Scholar** – Jaypee Institute of Information Technology, Noida, from July 2017 – June 2020
- **Worked as a Teaching Assistant** – Jaypee Institute of Information Technology, Noida, from July 2017 – June 2020
- Worked as an *Assistant Professor* in **RBMI**, Greater Noida from Feb 2017 – June 2017.
- **Full Time:** - Worked as *Subject Matter Expert* in **Evelyn Learning System Pvt. Ltd.** (New Delhi) from August 2016 to November 2016.
- **Part-time:** - Worked as *Subject Matter Expert* in **Evelyn Learning System Pvt. Ltd.** (New Delhi) from **December 2016 to March 2018.**
- Worked as a **Software Developer Intern** in **STMicroelectronics, Greater Noida** (June 2015 – April 2016)
- Worked as a **Software Engineer Intern** in **WIPRO Infotech, Gurugram** (January 2014 – June 2014).

AREA OF INTEREST

Distributed Computing, Cloud Computing, Machine Learning, Artificial Intelligence, Fog Computing, IoT.

COMPUTER EXPOSURE

- **Programming Languages:** C, C++, JAVA, Python, HTML, JavaScript, Shell Scripting.
- **Operating System:** Windows XP/7/8/10, UNIX/LINUX, MS-DOS.
- **Database:** MS ACCESS, SQL SERVER2000, MySQL, PL/SQL, Oracle 10g/11c/12c, NuoDB, NoSQL, Cassandra.
- **Tools:** NetBeans IDE 8.2, Eclipse, CodeBlocks, xampplite, MATLAB, RStudio, Jupyter Notebook, Visual Studio Code, Google Cloud Platform.

PUBLICATIONS

Journals

Published:

1. Priti Kumari, Parmeet Kaur, “**A survey of fault tolerance in cloud computing**”, Journal of King Saud University-Computer and Information Sciences, vol. 33, no., pp. 1159-1176, 10 Oct. 2018. [Scopus, SCIE indexed, IF = 13.473, H-index - 46]
2. Priti Kumari, Parmeet Kaur, “**Checkpointing Algorithms for Fault-Tolerant Execution of Large-Scale Distributed Applications in Cloud**” in Wireless Personal Communications (Springer) (Scopus, SCIE indexed, H-index – 48, IF 1.06),2021.
3. Priti Kumari, Parmeet Kaur, " **An Adaptable Approach to Fault Tolerance in Cloud Computing**” in International Journal of Performability Engineering (Scopus, H-index – 25, IF – 1.2), 2023.
4. Priti Kumari, Parmeet Kaur, “**Connected Data Set based Virtual Machine Replication in Cloud Computing**” in International Journal of Performability Engineering (Scopus, H-index – 25, IF – 1.2),2020.
5. Priti Kumari, Parmeet Kaur, “**Topology Aware Virtual Machine Replication for fault tolerance in cloud computing systems**” in Multiagent and Grid Systems - IOS Press, 2020 (Scopus).
6. Priti Kumari, et. al, “**Issues Confronted By Street Food Vendors During COVID-19 First Wave In India- Word Cloud Analysis**” in Webology (Scopus, H-index – 20, IF – 1.65), 2021.
7. Priti Kumari, et. al, “**Implementation of Fuzzy Rule-Based Inference System for Adaptive Movie Recommendation System**”, in Computer Integrated Manufacturing Systems (Scopus, H-index – 36, IF – 1.65), 2022.
8. Priti Kumari et. al Communicated Paper entitled “**An Optimal Checkpointing with Message Logging Protocol for Fault Tolerance of Distributed Applications in the Cloud Data Center**” in European Chemical Bulletin (Scopus, IF – 3.17), 2023.

Communicated:

9. Priti Kumari, Parmeet Kaur, Communicated Paper entitled "**Effective Cache Placement for Content Delivery Networks in Fog Computing** " [Under review in an International Journal].

Conferences

1. Priti Kumari et al., “**Intellectual Movie Recommendation System Using Supervised Machine Learning Method**” in 4th International Conference on Computing, Communications and Cyber Security (IC4S-2022), Springer.
2. Priti Kumari et al., “**Machine Learning based model for predicting failure of physical**

machines in the cloud computing” in 3rd International Conference Flexible Electronics on Electric Vehicles (FlexEV-2022), Springer.

3. Priti Kumari, Vandana Dubey, Adarsh Kumar, “**Comprehensive Study of Convolutional Neural Networks (CNN): Deep Learning Technique,**” In Proceedings: International Conference on “Innovative Practices in Engineering Sciences and Management (IESM -2022).
4. Priti Kumari et al., “**Information Retrieval Using Data Structure,**” In Proceedings: International Conference on Innovative Practices in Engineering Sciences and Management (IESM -2022).
5. Priti Kumari et al., “**Conceptual Understanding of Deep Learning Theory and Techniques,**” In Proceedings: International Conference on “Innovative Practices in Engineering Sciences and Management (IESM -2022).
6. Priti Kumari, Vandana Dubey, Adarsh Kumar, G.R. Mishra “**Checkpoint Snapshot Placement in the Cloud Data Center Using Fuzzy Inference System**” in 5th International Conference on VLSI, Communication and Signal Processing (VCAS 2022), Springer.
7. Priti Kumari et al., “**Nitty-Gritty of Machine Learning and It’s Techniques,**” In Proceedings: International Conference on “Innovative Practices in Engineering Sciences and Management (IESM -2022).
8. Priti Kumari et al., “**Blockchain Technology and Architecture: A Systematic Review,**” In Proceedings: International Conference on Innovative Practices in Engineering Sciences and Management (IESM -2022)
9. Priti Kumari et al., “**A Review on Recommendation System,**” In Proceedings: International Conference on Innovative Practices in Engineering Sciences and Management (IESM -2022).
10. Priti Kumari, Parmeet Kaur, “**Virtual Machine Replication in the Cloud Computing System Using Fuzzy Inference System**” in International Conference on Data Analytics and Management (ICDAM 2020), Springer.
11. Priti Kumari, “**Efficient Use of Data Mining Procedure for Network Intrusion Detection System**” In Proceedings: National Conference on Advance Computing Research (NCACR), February 2015 organized by Department of Computer Science and Applications, Indira Gandhi University Meerpur, Rewari, Haryana.

PATENT

1. Granted from Republic of South Africa on 22nd February 2023 titled “A Method for Fault Tolerance in Fog Computing Network Using Classification and Replication”.
Application Number: 2022/12954.
2. Published in India Patent, **Application No. 202311002492** (Patent Application Title- “Broadcasting of Message Using Social Media in the Scenario of Emergency”), Publication Date- 20 January 2023.
3. Published in India Patent, **Application No. 202211064723** (Patent Application Title- “SYSTEM AND METHOD FOR AUTOMATIC LOAD BALANCING FOR CLOUD SERVERS”), Publication Date- 02 December 2022.
4. Published in India Patent Journal No. 43/2022 Dated 28.10.2022, **Application No. 202211057696** (Patent Application Title- "A Smart System for Real Time Monitoring of Crop Fields Using Night Vision and Sonic Sensors"), Publication Date- 28 October 2022.
5. Granted from Republic of South Africa on 31st August 2022 titled “A Device and a Method for Designing Reversible Realization of 2:4 Decoder Circuit”.
Application Number: 2022/05270.

EDITORS/REVIEWER

1. Reviewer, The International Conference on Contemporary Computing (IC3), Organized by Jaypee Institute of Information Technology, Noida, 2023.
2. Editor, Book Title: Advance Statistical and Computational Techniques in Interdisciplinary Research, D.P.S. Publication House, 2023.
3. Editor, International Conference on Innovative Practices in Engineering Sciences and Management (IESM -2022), organized by Ashoka Institute of Technology & Management, 17-19 Oct 2022.
4. Reviewer, International Conference on Innovative Practices in Engineering Sciences and Management (IESM -2022), organized by Ashoka Institute of Technology & Management, 17-19 Oct 2022.

SEMINAR/CONFERENCE/WORKSHOP/EVENTS ORGANISED/COORDINATOR/MEMBER

1. Coordinator, one day workshop on “**System Thinking**” at Ashoka Institute of Technology & Management, Varanasi on 16-June-2023.
2. Publicity Chair, **2023 IEEE World Conference on Applied Intelligence and Computing**, jointly organized by REC, Sonebhadra and Ashoka Institute of Technology & Management, Varanasi from 29-July- 2023 to 30-July-2023.
3. Coordinator, 15 Days Workshop on “**Data Analysis and Data Visualization using Advance Excel and Power BI**”, at Ashoka Institute of Technology & Management, Varanasi from 6-May-2023 to 20-May-2023.
4. Coordinator, one day workshop on “**Exploring Financial Security Market in India**” at Ashoka Institute of Technology & Management, Varanasi on 20-April-2023.
5. Coordinator, one-week online FDP on “**Recent Trends in Computation, Data Processing and Security**”, at Ashoka Institute of Technology & Management, Varanasi from 30-Jan 2023 to 03-Feb-2023.
6. Organized International Talk on “**Digital Transformation Towards Cloud & Awareness of Amazon Web Services**”, at Ashoka Institute of Technology & Management, Varanasi on 13th Jan 2023.
7. Organized one day Workshop on “**Introduction to Software Development through Java**”, at Ashoka Institute of Technology & Management, Varanasi on 1st Dec 2022.
8. Organized International Conference on **Innovative Practices in Engineering Sciences and Management (IESM -2022)**, at Ashoka Institute of Technology & Management, Varanasi on 17th -19th Oct 2022.
9. Organized International online Guest Lecture on “**Artificial Intelligence in AWS Cloud**” at Ashoka Institute of Technology & Management, Varanasi on 4th Feb 2022.
10. Member of ACIISE, Ashoka Institute of Technology & Management, Varanasi
11. Member of IQAC, Ashoka Institute of Technology & Management, Varanasi
12. DQAC Coordinator, Ashoka Institute of Technology & Management, Varanasi
13. Member of Project Review Committee, Ashoka Institute of Technology & Management, Varanasi

ACHIEVEMENTS

1. 12-week NPTEL certification and FDP course on “**Problem Solving through Programming in C**”, organized by IIT Madras, Jan-April 2023. (Score – 75%)
2. 4-week NPTEL certification and FDP course on “**Fundamental Algorithms: Design**

- and Analysis”**, organized by IIT Kharagpur, Jan-Feb 2023. (Score 67%)
3. **Qualified STET (State Teacher Eligibility Test)-2019, Bihar**
 4. Secured first position in BCA.

SHORT TERM COURSE/SEMINAR/ WORKSHOP/ FDP ATTENDED

1. Participated in the one-week online Faculty Development Program on **“Cyber Security Challenges and Practices (CSCP-2022)”**, organized by the department of CSE, Rajkiya Engineering College, Sonbhadra, from November 28th to December 2nd, 2022.
2. Participated in **European Assembly Advanced Materials Congress**, Organized by International Association of Advanced Materials, Sweden, from August 28-31, 2022.
3. Attended the two-week online Summer School on **“ Quantum Computing and Applications (QCA’ 2022)”**, organized by Ramanujan College, Delhi University, from 25th July – 05 August 2022.
4. Attended the one-week online Faculty Development Program on **“Machine learning for Internet of Things (IoT), Natural Language Processing & Computer Vision”**, organized by the department of CSE & IT, IIIT, Noida, from August 16th to 21st, 2022.
5. Attended the one-week online Faculty Development Program on **“Blockchain Technology and Its Applications (BTA’22)”**, organized by the department of CSE, IIIT, Noida, from July 25th to 30th, 2022.
6. Attended the one-week online Faculty Development Program on **“Blockchain Technology and Its Applications (BTA’22)”**, organized by the department of CSE, IIIT, Noida, from July 25th to 30th, 2022.
7. Attended six days online Faculty Development Program on **“Full Stack Engineering”**, organized by the department of CSE, IIIT, Noida, from 4th to 9th July 2022.
8. Attended a one-week online Faculty Development Program on **“Emerging Trends and Advances in Computational Intelligence (ETACi-2022),”** organized by the Department of Information Technology, BBDITM, Lucknow, from 28th Feb to 5th March, 2022.
9. Attended a two weeks short term training program on **“Advances in Linear Algebra: Technology based Innovations,”** organized by the department of Mathematics, Sec-62 Noida, from June 14- 26, 2021.
10. Attended six days Faculty Development Program on **“Innovations and Trends in Software Engineering”**, organized by the department of CSE & IT, IIIT, Sec-62 Noida, from 7th to 12th June 2021.
11. Attended the one-week Faculty Development Program on **“Intelligent System and Informatics”**, organized by the department of CSE & IT, IIIT, Sec-62 Noida, from July 8th to 13th, 2019.
12. Attended a one-week short term course on **“Cloud & IoT: Systems Tools and Applications”**, organized by the department of CSE & IT, IIIT, Sec-62 Noida, from July 1st to 6th, 2019.
13. Attended three days workshop on **“Intelligent Systems Techniques and its Research Applications”**, organized by the department of CSE, IIIT, Sec-62 Noida, from December 20 to 22, 2018.
14. Attended three days workshop on **“Big Data Systems, Tools & Applications”**,

- organized by the department of CSE, IIIT, Sec-62 Noida, from 17th to 19th December 2018.
15. Attended IC3 conference organized by the department of CSE, IIIT, Sec-62 Noida, from 2nd to 4th August 2018
 16. Attended six days Faculty Development Program on “**Re-Imagining Computing: Engineering, Research, and Education**”, organized by the department of CSE, IIIT, Sec-62 Noida, from 4th to 10th July 2018.
 17. Attended two-days workshop on “**Author Workshop on Research Paper Writing**” at IIIT, Noida, on 19th -20th January 2018.
 18. Attended a one-week national workshop on “**A Trend towards Machine Learning: Techniques and Applications**”, organized by the Department of Computer Science, Deen Dayal Upadhyaya College (Delhi University), from 26th December 2017 to 1st January 2018.
 19. Attended a one-week workshop on “**Machine Learning for Signal Processing**”, organized by the department of ECE, IIIT, Sec-62 Noida, from 18th to 22nd December 2017.
 20. Attended three days of IC3 conference organized by the department of CSE, IIIT, Sec-62 Noida, from 10th to 12th August 2017
 21. Attended two days workshop on “**Android App Development**”, organized by the ROBOTech Labs Pvt. Ltd., from 16th to 17th Feb 2015 at Banasthali University, Rajasthan.
 22. Attended one day workshop on “**OpenStack – Infrastructure as a Service (IaaS)**” organized by LinuxWorld Informatics Pvt. Ltd., on 16th March 2015 at Banasthali University, Rajasthan.
 23. Attended two days National Workshop on “**Machine Learning, Big Data and Hadoop**” conducted by CIRG, on April 7th - 8th, 2015 at Banasthali University, Rajasthan.

DECLARATION

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

[Priti Kumari]
