

# DR. SUMIT KUMAR KAPOOR

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## SYNOPSIS

An accomplished professional with over **22 years of progressive experience** in academia, research, and institutional leadership within computer science and engineering domains. Brings deep expertise in curriculum design, faculty mentorship, and academic administration, consistently elevating educational standards and student outcomes. Demonstrates a strong research orientation with significant contributions in AI, cybersecurity, IoT, and smart systems, supported by multiple Scopus-indexed publications, patents, and authored books. Proven ability to lead departments, drive innovation, and align academic programs with emerging industry trends. Recognised for excellence in teaching and academic leadership through multiple prestigious awards. Adept at fostering collaborative environments, guiding research scholars, and strengthening institutional reputation through high-impact research, editorial roles, and international academic engagement.

## CORE COMPETENCIES

- Academic Leadership
- Research & Innovation
- Strategic Planning
- Faculty Development
- Curriculum Design
- Stakeholder Engagement
- Problem Solving
- Decision Making
- Team Management
- Communication Excellence

## PROFESSIONAL EXPERIENCE

### ASSOCIATE PROFESSOR (DEPUTY HOD) POORNIMA UNIVERSITY, JAIPUR | JAN 2024 – PRESENT

#### Roles and Responsibilities:

- Driving end-to-end departmental operations, ensuring academic excellence, accreditation compliance, and strategic growth
- Leading curriculum transformation initiatives integrating AI, Machine Learning, and emerging technologies
- Mentoring and empowering faculty to elevate teaching standards and research productivity
- Implementing structured academic frameworks to boost student performance, engagement, and outcomes
- Collaborating with leadership to strengthen institutional reputation and academic innovation

### ASSOCIATE PROFESSOR POORNIMA UNIVERSITY, JAIPUR | JUL 2023 – DEC 2023

#### Roles and Responsibilities:

- Delivered advanced Computer Science courses with a strong focus on industry-relevant, application-based learning
- Contributed to academic planning, curriculum alignment, and departmental coordination
- Enhanced classroom delivery through modern teaching methodologies and practical exposure
- Supported departmental initiatives aimed at improving student learning outcomes and engagement

### ASSOCIATE PROFESSOR (HOD) DISHA INSTITUTE OF SCIENCE & TECHNOLOGY, DHAMPUR | JUL 2014 – JUN 2023

#### Roles and Responsibilities:

- Led the department for 9 years, driving measurable improvements in academic quality and student success
- Directed curriculum planning, faculty performance management, and institutional compliance
- Built and nurtured a strong research culture, significantly increasing publications and academic visibility
- Spearheaded initiatives to modernise teaching practices and align programs with industry needs
- Strengthened team performance through continuous mentoring, training, and leadership development

### ASSISTANT PROFESSOR DISHA INSTITUTE OF SCIENCE & TECHNOLOGY | MAR 2011 – JUN 2014

#### Roles and Responsibilities:

- Delivered core Computer Science subjects with a focus on concept clarity and practical understanding
- Contributed to curriculum development and academic planning processes
- Supported departmental activities to enhance teaching quality and student performance
- Actively participated in academic coordination and institutional responsibilities

### SENIOR LECTURER VARDHAMAN P.G. COLLEGE, BIJNOR | AUG 2006 – FEB 2011

#### Roles and Responsibilities:

- Established a strong foundation in teaching UG-level Computer Science subjects
- Developed engaging teaching approaches to simplify complex technical concepts

- Contributed to academic delivery, student mentoring, and institutional activities
- Built a consistent track record of student satisfaction and academic effectiveness

PRIOR PROFESSIONAL EXPERIENCE

- **Guest Faculty** – IICR, Bijnor (2006)
- **Software Testing Engineer** – Infotech Software Solution, Delhi (2004–2005)
- **Trainee Programmer** – Logix Net Solution, Delhi (2004)

KEY ACHIEVEMENTS

- **Award of Excellence** – Poornima University (2023–24) and (2024-25) both year
- **Best Teacher Award** – Disha Group (2022)
- **Teacher Honours** – UP State Government (2021)
- **Published** multiple Scopus-indexed books, chapters, and research papers
- **Filed 10+ patents in AI, healthcare, and smart technologies**

AREAS OF EXPERTISE

- **Academic Leadership & Governance** – Leading departments with strategic vision, policy implementation, and academic excellence
- **Curriculum Design & Innovation** – Designing future-ready curriculum aligned with AI, ML, and industry needs
- **Artificial Intelligence & Machine Learning** – Applying intelligent systems to solve complex real-world and research problems
- **Research & Publication Strategy** – Driving high-impact research output through structured planning and scholarly contributions
- **Faculty Development & Mentorship** – Coaching educators to enhance teaching effectiveness and research capabilities consistently
- **Student Success & Engagement** – Implementing frameworks to improve student performance, retention, and academic outcomes
- **Cybersecurity & Data Protection** – Addressing modern security challenges across digital systems and network infrastructures
- **Emerging Technologies Integration** – Embedding IoT, AI, and data science into academic and research ecosystems
- **Institutional Administration & Compliance** – Ensuring regulatory compliance, accreditation standards, and operational efficiency
- **Innovation, Patents & Intellectual Property** – Developing and protecting novel solutions through patents and applied research

TECHNICAL SKILLS

- **Programming:** C, C++, Java, Visual Basic
- **Databases:** DBMS, SQL
- **Domains:** AI, Machine Learning, IoT, Cybersecurity
- **Tools:** Data Analytics, Research Tools, LaTeX
- **Concepts:** Operating Systems, Computer Networks, Algorithms

EDUCATION | CERTIFICATIONS

- **PhD (Computer Science – E-Governance Security Aspect in Implementation)**, CMJ University, 2012
- **MCA, U.P. Technical University**, 2004
- **B.Sc. (Mathematics)**, MJP Rohilkhand University, 2001

Certifications

- Deep Learning Certification – Pantech E-Learning
- Python Fundamentals – Great Learning
- Oracle SQL Certification – Great Learning
- Software Testing Training – ATS InfoTech, New Delhi
- E-Commerce Certification – Aptech
- Advanced PC Applications – NIIT

PERSONAL DETAILS

- **Date of Birth:** 22 June 1982
- **Languages known:** Hindi, English
- **Location:** Jaipur, Rajasthan, India
- **Passport:** Available (M8708665)

# ANNEXURE – RESEARCH, ACADEMIC & PROFESSIONAL CREDENTIALS

## PROJECTS DETAILS

### RESEARCH MEMBERSHIPS

- **Professional Member** – Association for Computing Machinery (ACM), Feb 2026
- **Member** – International Association of Engineers (IAENG) | **Member No.:** 505984 | **Feb 2025**
- **Lifetime Member** – Education Research and Development Association (ERDA) | **ID:** ERDA/INDLM/616/0923 | **Sep 2023**
- **Appointed Online Research Guide** – **Central Christian University, Malawi (East Africa)**

### EDITORIAL BOARD MEMBERSHIPS

- **Editorial Board Member** – Journal of International Research for Engineering & Management (JOIREM) | Jan 2025
- **Editorial Board Member** – Edwin Group of Journals | Dec 2023
- **Editorial Board Member** – International Engineering Journal for Research & Development (IEJRD)
- **Editorial Board Member** – American Journal of Computer Science and Technology (AJCST)

### RESEARCH REVIEWER EXPERIENCE

- **Awarded Certificate of Excellence in Reviewing** – Asian Journal of Research in Computer Science | Mar 2025
- **Reviewer** – IEEE International Conference (ICREA-2024), Jaipur
- **Review Member** – Journal of Emerging Technologies & Innovative Research (JETIR)
- **Review Member** – International Journal of Innovative Research in Technology (IJIRT)
- **Recognised Reviewer** – ABCD Indexed Journals (2024)
- **Peer Reviewer** – BP International Publications (Book Review Excellence Award, 2023)

### RESEARCH PROFILES

- **Scopus ID:** 58723078000
- **ORCID ID:** 0009-0005-6291-3176
- **Google Scholar:** sumitkrkapoor@gmail.com
- **ResearchGate:** researchgate.net/profile/Sumit\_Kapoor3
- **Web of Science:** sumitkrkapoor@gmail.com
- **LinkedIn:** linkedin.com/in/dr-sumit-kumarkapoor-01b50815
- **Academia.edu:** poornima.academia.edu/SumitKumarKapoor

### BOOKS PUBLISHED

- **The Intelligent Convergence: IoT Meets Generative AI for a Smarter Future** – MGM Publication, 2026
- **Online Social Networks in Business Frameworks** – John Wiley & Sons, 2024 (Scopus Indexed)
- **Fundamentals of M-Commerce** – ABD Publication, 2018

### BOOK CHAPTERS (INTERNATIONAL & SCOPUS INDEXED)

- **Social Engineering & Cybercrime Psychology** – IGI Global, 2026 (2 Publications)
- **Ethical Digital Twin in AI Education** – IGI Global, 2026 (Scopus)
- **Security & Privacy in Generative AI Systems** – IGI Global, 2025 (Scopus)
- **AI-Driven Circular Design & Smart Manufacturing** – Springer, 2026 (Scopus)
- **Optical Fibre Sensing Applications** – CRC Press, 2025 (Scopus)
- **AI in Smart Healthcare Systems** – CRC Press, 2025 (Scopus)
- **Security in Online Social Networks** – Wiley, 2024 (Scopus)

### PATENTS FILED (10 INNOVATIONS)

- AI-based Plant Disease Detection System (2025)
- Fake Social Media Detection Framework using AI (2025)
- BioTrack Smart Crime Evidence Validation System (2025)
- AI-Powered Faculty Stress Management System (2025)
- NC Code Optimisation Tool using AI (2025)
- Parkinson's Tremor Detection via Smartphone AI (2025)
- Smart Assistive Stick for Visually Impaired (2025)
- AI Malware Detection System (2025)
- EV Market Prediction using Deep Learning (2023)
- AI-Based Attendance & Feedback System (2022)

### CONFERENCE PUBLICATIONS (SCOPUS INDEXED)

- **Alzheimer's Severity Detection using Deep Learning** – ICIDS 2024
- **Federated Learning for Medical Imaging** – MDPI Conference 2025
- **Blockchain & Fog Computing in Healthcare Security** – Springer 2025
- **AI Framework for IoT Smart Cities** – Springer 2025
- **6G Communication Optimisation Model** – CRC Press 2025

## ■ RESEARCH PUBLICATIONS

### International Journals (Scopus/WoS Indexed)

- Reinforcement Learning for Disaster Communication Networks – 2025 (WoS)
- AI Bias Mitigation in Biomedical Imaging – 2025 (WoS)
- AI Applications in Cybersecurity & Healthcare – 2024–2025
- Agricultural IoT Security & Data Privacy – 2024 (Scopus)
- Machine Learning for Arrhythmia Detection – 2023 (Scopus)

### National Journals

- AI in Indian Governance Systems – 2020
- Women Safety Technologies Study – 2017
- Computerised Reasoning Applications – 2017
- E-Governance Challenges & Implementation – 2011
- Ethics in Education & Teaching – 2011

## 🎓 CONFERENCES, SEMINARS & WORKSHOPS

- Presented and participated in multiple national and international conferences on AI, cybersecurity, and emerging technologies
- Active contributor to academic seminars, webinars, and research discussions across institutions
- Regular participant in research methodology, blockchain, and digital transformation workshops

## 📖 FACULTY DEVELOPMENT PROGRAMS (FDPS)

- Completed 20+ FDPs in AI, Machine Learning, Blockchain, Data Science, and Research Methodology
- Key programs from IIT Roorkee, UGC, AICTE, SRM Institute, and leading universities
- Achieved Grade A+ in NEP 2020 Orientation Programs

## 👤🎓 RESEARCH GUIDANCE

- Currently guiding **05 PhD students. Scholars (Ongoing)**

**Dr. Sumit Kumar Kapoor**  
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