

# Dr. M. ANJAN KUMAR

M.Tech (CS) | Ph.D (CSE)

## Professor & Dean – Research and Development

Dept. of Computer Science & Engineering

Viswam Engineering College (Autonomous), Madanapalle, Andhra Pradesh

✉ anjanind@gmail.com

☎ +91 9440721526

📄 linkedin.com/in/dr-anjan-kumar

ORCID: 0000-0003-4037-9847

**Ph.D. Supervisor — 04 Scholars**

*18+ Years of Academic Leadership*

• *Ratified by JNTUH*

## ■ EXECUTIVE PROFILE

Distinguished academic leader and research scientist with over 17 years of progressive experience in higher education, encompassing professorships, departmental headship, deanship, and institutional governance across autonomous engineering institutions. Internationally recognised for scholarly contributions in Artificial Intelligence, Machine Learning, Deep Learning, Cloud Computing, IoT Security, and Information Retrieval. Possesses a robust research portfolio comprising 5 patents (including an Australian patent), 5 authored books, 16 peer-reviewed international journal articles, 17 international conference papers, 7 national conference presentations, and over ₹1.5 crore in research funding proposals forwarded to AICTE, DST, and ICSSR. Committed to fostering a culture of research excellence, interdisciplinary collaboration, and technology-driven institutional transformation.

## ■ RESEARCH METRICS AT A GLANCE

<b>16</b> International Journal Publications	<b>17</b> International Conference Papers	<b>07</b> National Conference Papers	<b>05</b> Patents Granted / Filed	<b>05</b> Books Authored
<b>04</b> Ph.D. Scholars Supervised	<b>04</b> Webinars Convened	<b>05</b> Workshops Organised	<b>10</b> Research Proposals Forwarded	<b>14</b> International Memberships

## ■ CORE COMPETENCIES & AREAS OF EXPERTISE

Artificial Intelligence & Machine Learning  
Cloud Computing & IoT Security  
Web Technologies & Data Engineering  
Academic Research Leadership & Policy  
Research Funding & Grant Management  
Curriculum Design & Pedagogical Innovation

Deep Learning & Generative AI  
Post-Quantum Cryptography & Blockchain  
Information Retrieval Systems  
Doctoral Supervision & Mentoring  
Industry-Academia Collaboration & MoUs  
Institutional Governance & Administration

## ■ ACADEMIC & PROFESSIONAL EXPERIENCE

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### **Professor & Dean – Research and Development** | Viswam Engineering College (Autonomous), Madanapalle | 2025 – Present

- ▶ Provides strategic leadership for all institutional R&D initiatives, research culture development, and innovation ecosystems
- ▶ Holds concurrent responsibilities as Website Administrator and Head of Digital Media & Promotions, overseeing institutional digital identity
- ▶ Executed Google Education Suite integration (ac.in domain) for institutional email infrastructure; developed AI-integrated college website from ground up
- ▶ Conceptualised and led ICETM-2025, an international hybrid conference; served as Conference Editor for Scopus & WoS-indexed proceedings (ISBN: 978-81-984440-5-9)
- ▶ Coordinated AICTE-ATAL FDP on Supercomputing, AI & Data Science (Sept 2025) with 100 participants and eminent DRDO/IIT faculty
- ▶ Established MoU frameworks with Edunet Foundation, Jack Sparrow Publishers, ReshApp (AI, Robotics & Data Science), XARPI Labs, and Ignite Embedded Systems (Drone Technology)
- ▶ Facilitated IBM SkillBuild Program for 100+ students (2nd and 3rd year) at no cost; organised 4-day Cybersecurity Workshop in collaboration with industry experts
- ▶ Secured DRDO Student Trainee internships (3 selected, 3 under processing); planned Cybersecurity & Data Science Certification Programmes for April 2026
- ▶ Proposed 10 externally-funded research projects to national agencies (AICTE, DST-QTC, DST-WMT, DST-AMT, ICSSR) aggregating over ₹1.5 crore in potential funding
- ▶ Championed the CSR initiative ‘Aspire Leaders Program 2026’ and internal staff upskilling through Generative AI & Network Paradigms workshop

### **Professor** | Jyothishmathi Institute of Technology & Science (Autonomous) | 2023 – 2025

- ▶ Delivered advanced-level instruction in AI, Deep Learning, Web Technologies, and Information Retrieval at UG and PG levels
- ▶ Continued active research publication in Scopus and WoS-indexed journals; maintained doctoral supervision responsibilities
- ▶ Contributed to academic committees, departmental development, and industry-linked student project guidance

### **Professor** | Sree Chaitanya College of Engineering | 2022 – 2023

- ▶ Taught core CSE specialisation courses and provided mentorship for student capstone and research projects

### **Professor, Head of Department & I/C Principal** | Vivekananda Institute of Technology and Science (VITS), Karimnagar | 2017 – 2022

- ▶ Concurrently held responsibilities as Professor, HoD, Dean, Center of Excellence (IoT & ML) Coordinator, and R&D Coordinator at institute level
- ▶ Served as Principal In-Charge and Chief Superintendent of Examinations during critical institutional transitions
- ▶ Founded and operationalised the Center of Excellence in IoT & Machine Learning; deployed AI-based demographic prediction and biometric-free smart attendance systems
- ▶ Spearheaded national workshops in partnership with IIT BHU (TECHNEX-19), IISc Bangalore (ANDROBUZZ-14), and IIT Delhi (NNSC) for student and faculty development
- ▶ Supervised final-year and postgraduate projects; served as Faculty Advisor for CSI & ISTE collegiate chapters; coordinated Alumni and Project activities
- ▶ Initiated departmental and institutional governance reforms including academic and disciplinary committee oversight

### **Associate Professor & PG Coordinator – CS & CSE** | Vivekananda Institute of Technology and Science | 2014 – 2017

- ▶ Coordinated and administered postgraduate programmes (MCA & M.Tech CSE) including curriculum planning, faculty allocation, and outcome monitoring
- ▶ Completed and successfully defended doctoral research; awarded Ph.D. (CSE) by Shri JJT University in May 2017
- ▶ Guided multiple postgraduate theses and contributed to departmental academic quality assurance processes

**Associate Professor & Head of Department – Information Technology** | Vivekananda Institute of Technology and Science | 2010 – 2014

- ▶ Led the Information Technology Department as Head; managed faculty performance, course delivery, and student welfare
- ▶ Organised national-level workshops including ANDROBUZZ (IISc) and NNSC (IIT Delhi); strengthened industry-academic linkages

**Faculty – Research and Development** | University of Botho, Gaborone Campus, Botswana | *International Tenure*

- ▶ Engaged in applied research and academic instruction at an international institution, gaining cross-cultural academic experience
- ▶ Contributed to R&D projects and delivered faculty-level lectures, broadening perspectives on global higher education practices

**System Engineer** | Newzen InfoTech, Hyderabad | 2008 – 2010

- ▶ Developed enterprise-level software solutions using Java (J2SE/J2EE), .NET, and web technologies

## ■ EDUCATIONAL QUALIFICATIONS

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**Ph.D. – Computer Science & Engineering**

(REG-FULLTIME) Shri Jagdish Prasad  
Jhabarmal Tibrewala University, Rajasthan |  
Awarded May 2017

**M.Tech – Computer Science**

Jawaharlal Nehru Technological University  
(JNTU), Hyderabad | 2012 | 80%

**M.C.A. – Master of Computer Applications**

Kakatiya University (University PG College) |  
2008 | 75%

## ■ DOCTORAL RESEARCH SUPERVISION

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**Recognised Ph.D. Supervisor | Total Scholars: 04 (02 Awarded | 01 Thesis Defended | 01 Active)**

- ▶ Kontham Sridhar – Computer Science & Engineering | Ph.D. Awarded | NIILM University, Kaithal, Haryana
- ▶ Adicherla Ramesh – CSE (Data Science) | Ph.D. Awarded | NIILM University, Kaithal, Haryana
- ▶ Ch. Vamshiraj (Reg. No. 25617080) – “An Efficient Multimodal Information Retrieval System Using Dynamic Data Clusters” | Thesis Submitted | Shri JJT University
- ▶ Scholar 04 – Active Registration | Shri JJT University

## ■ RESEARCH FUNDING & GRANT PORTFOLIO

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S.No	Agency	Title	Budget	Role	Status
1	ATAL FDP	Empowering Digital Transformation: Supercomputing, AI & Data Science	₹1,00,000	PI	Sanctioned

## ■ INTELLECTUAL PROPERTY – PATENTS (05)

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- ▶ **IPR India – App. No. 202541098654:** Intelligent Cloud Storage Optimization System using Artificial Intelligence
- ▶ **IP Australia – Patent No. 2021102309:** An Efficient Iris Recognition System with Complete Local Ternary Pattern Feature Extraction and Classification Method
- ▶ **IPR India – App. No. 202141020723:** A System for Resource Aggregation to the Cloud with Optimal Path Detection (06-05-2021)
- ▶ **IPR India – App. No. 202141034133:** An Efficient Network Establishment Method for IoT Security Using Blockchain
- ▶ **IPR India – (Filed):** Blockchain-Based IoT System with Data Processing and Cleaning Method for Sensor Data

## ■ BOOKS AUTHORED (05)

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- ▶ **Book 1:** Differential Equations and Vector Calculus: A Theoretical and Practical Approach – Jack Sparrow Publishers | ISBN: 978-93-47093-65-4 | WoS & Scopus Indexed | 2025
- ▶ **Book 2:** Digital DNA: The Blueprint of Computer Organization – VEGA International Publishers | ISBN: 978-81-987358-0-5 | April 2025
- ▶ **Book 3:** Real World Applications of Machine Learning in Healthcare – ESN Publications | ISBN: 978-93-95196-75-8 | Guinness World Record Attempt: 'Thickest Book in the World' (Aug 2023)
- ▶ **Book 4:** Object Oriented Programming and Data Structures – Scientific International Publishing House | ISBN: 978-93-94002-85-2
- ▶ **Book 5:** Essentials of Machine Learning – Eliteldea Solutions India Pvt. Ltd. | ISBN: 978-81-967875-6-1

## ■ INTERNATIONAL JOURNAL PUBLICATIONS (16)

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*Indexed in SCIE | Scopus | IEEE Explore | UGC CARE Group-I*

- ▶ Secure AI Watermarking Framework for IP Protection in Multi-Tenant Cloud Platforms – IJRDES Vol.7, Issue 6, 2025, pp.69–82 | SCIE, Scopus **DOI: doi.org/10.63328/IJRDES-V7RI6P9 SCIE-Under evaluation**
- ▶ Advancing Post-Quantum Cryptography: Novel Algorithmic Models and Security Implementations – Goya Journal, 2025 | **Scopus**
- ▶ Quantum-Enhanced Cryptographic Protocols for Ultra-Secure Data Transmission in Next-Generation Networks – Journal of Dalian University of Technology, Vol.31, Issue 12, 2024 | **Scopus**
- ▶ Brain Tumor Segmentation Using CNN-Based Visual Geometry – IEEE Explore (AIKIIIE-2023) | DOI: 10.1109/AIKIIIE60097.2023.10390438 | **Scopus**
- ▶ An Intelligent Crop Yield Prediction Using Machine Learning and Deep Learning – Heritage Research Journal, Vol.72, Issue 5, 2024 | UGC CARE Group-I
- ▶ Fake News Detection in Social Media Using Blockchain Technology – Dogo Rangsang Research Journal, Vol.9, Issue 1, 2022 | UGC CARE Group-I
- ▶ Blockchain-Based Secure Data Sharing in Vehicle Social Networks – Juni Khyat, Vol.12, Issue 1, 2022 | UGC CARE Group-I
- ▶ A Hybrid Model for Ranked Search Over Encrypted Cloud Using Feature Matching Techniques – JRMT, Vol.12, Issue 4, 2021 | UGC CARE Group-I

- ▶ Recommendations for POIs Based on Long and Short-Term Preference Learnings – Vol.11, Issue 3, 2020 | UGC CARE Group-I
- ▶ An Efficient Analysis on Secure KAC Scheme for Distributed Cloud Storage – JETIR, Vol.5, Issue 9, 2018 | UGC CARE Group-I
- ▶ Secure Deduplication with Efficient and Reliable Convergent Key Management in Cloud Storage – JETIR, Vol.5, Issue 9, 2018 | UGC CARE Group-I
- ▶ A Comparative Analysis of Feature Detectors and Feature Descriptors (SURF, SIFT) – IJDCST, Issue V-4, I-7, 2016
- ▶ A Survey on Visual Information Retrieval Tools with Wavelets – IJCST, Vol.7, Issue 4, Oct–Dec 2016
- ▶ Integrated Approaches for Domain Dimensional Information Retrieval Systems Using CORBA, ORB – IJCER, Vol.1, Issue 2, 2012
- ▶ Era of Personalized Information Retrieval System: Ranking, Rating and Ontology – IJARAI, Vol.1, Issue 1, 2013
- ▶ A Study on Image Transformations in View of Content-Based Image Retrieval – IJARAI, Vol.8, Issue 2, November 2016

## ■ INTERNATIONAL CONFERENCE PUBLICATIONS (17)

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*Indexed in Scopus | WoS | IEEE Explore | Springer*

- ▶ 91.2% Accurate, 88% Safer: RL-Powered Decision Systems for Microbial Risk Mitigation in Food Logistics – ICETM 2025 | Scopus, WoS: DOI: <https://doi.org/10.63328/IJRDES-V7CIP4>
- ▶ Towards Generalizable Models in Software Failure Prediction: A Machine Learning Approach – ICETM 2025 | Scopus, WoS DOI: <https://doi.org/10.63328/IJRDES-V7CIP3>
- ▶ Explainable AI for Enhanced Decision-Making in Next-Generation IoT Networks – ICETM-2025, Viswam Engineering College | Springer, Scopus:
- ▶ B. R. Cyril, P. Ramesh, M. Anjankumar, V. Sathiya, K. P. V and A. Kumar, "Big Data Analytics in IoT Ecosystems," *2025 International Conference on Frontier Technologies and Solutions (ICFTS)*, Chennai, India, 2025, pp. 1-6, doi: 10.1109/ICFTS62006.2025.11031548. | Scopus
- ▶ Building a Real and Fake Human Faces Dataset for Training and Evaluation of Deep Learning Models – DISC 2024 | WoS, Scopus
- ▶ Brain Tumor Segmentation Using CNN-Based Visual Geometry – IEEE AIKIIIE-2023, Bangalore | Scopus
- ▶ Enhancing Deep Learning Models for Image Recognition Using GANs – IEEE Bangalore Chapter, New Horizon College of Engineering, Sept 2023 | Scopus
- ▶ Secure Deduplication with Efficient and Reliable Convergent Key Management in Cloud Storage – ICITSEIT-2018 | Scopus
- ▶ An Efficient Analysis on Secure KAC Scheme for Distributed Cloud Storage – ICITSEIT-2018 | Scopus
- ▶ A Novel Approach of Multi-Model Image Feature Extraction with Invariant Scale Space and Directional Analysis – ICRET-2017 | Scopus
- ▶ Privacy Protection Using Generalization for Collaborative Data Publishing – ICCSPCIT-2014, MRCET Hyderabad
- ▶ A Novel Approach for Multi-Resolution Analysis & Feature Extraction Using SURF – ICSDETMSS-2016, Shri JJT University
- ▶ An Experimental Analysis on Descriptors-Based Visual Information Retrieval – IMEASMC-2016, January 2016
- ▶ Effective Approaches of Image Processing and Analysis in View of Visual Information Retrieval – AICETEAB-2015, November 2015
- ▶ Privacy Protection Using Generalization for Collaborative Data Publishing – ICCSPCIT-2014, Hyderabad
- ▶ Contemporary Models and Initiatives for Domain-Specific Information Retrieval Systems (FLEX, CLEF, GEOCLEF) – AMCM-2011, Padmavathi Mahila Visvavidyalayam, Tirupati
- ▶ Image Retrieval Using Segmentation Methods – A Study, International Conference on Photonics, VLSI & Signal Processing, Kakatiya University, 2014

## ■ NATIONAL CONFERENCE PUBLICATIONS (07)

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- ▶ Era of Neural Networks in Learning Approaches and Speech Recognition – NCICT, New Horizon College of Engineering, Bangalore, 2010
- ▶ Exhaustive Usage of Neural Networks in Speech and Optical Character Recognition – XIX National Conference on Cryptography & Network Security, JITS Karimnagar, 2010
- ▶ Automatic Speech Recognition System in the Perspective of Information Retrieval – NCCT, University PG College, Tirupati, 2010
- ▶ Notifiable Approaches in IDS Using Artificial Intelligence – NCICT-11, New Horizon College of Engineering, Bangalore, 2011
- ▶ Identifiable Approaches in Information Retrieval Systems – NCDMC-11, VITS Karimnagar, 2011
- ▶ A Survey on Image Retrieval System Using Morphological Segmentation Method – NCEC-2013, Institute of Public Enterprise, Hyderabad
- ▶ Performance Analysis of Robust Detectors and Descriptors in Feature Extraction and Matching – NLCMDAS-2016, NSIC Ltd., Hyderabad

## ■ CONFERENCE ORGANISATION, EDITORIAL & REVIEW ROLES

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- ▶ Conference Editor & Organising Secretary – ICETM-2025 (International Conference on Emerging Trends in Engineering, Technology & Management) | Scopus, WoS Indexed | DOI: 10.63328/IJRDES-V7C1-ICETM2025 | ISBN: 978-81-984440-5-9 | April 11–12, 2025
- ▶ Reviewer – IEEE Pune: MIT Art, Design & Technology International Conference on Sustainable AI for Multidisciplinary Applications, April 2024
- ▶ Associate Editor – International Journal of Research and Development in Engineering Sciences (IJRDES)
- ▶ Editorial Board Reviewer Member – 12 International Journals including IJRTE, IJEAT, IJITEE, IJISCE, IJISME, IJAENT, IJIES, IJESE, IJBSAC, IJSRCSEIT, IJCRT

## ■ WORKSHOPS ORGANISED (05) & NATIONAL WEBINARS CONVENED (04)

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### Workshops Organised

- ▶ TECHNEX-19 – Two-Day National Workshop on Machine Learning (in association with IIT BHU Varanasi) | Oct 4–5, 2018, VITS
- ▶ ANDROBUZZ-14 – National Workshop on Mobile App Development (in association with IISc Bangalore) | 2014, VITS
- ▶ NNSC – National Workshop on Network Security (in association with IIT Delhi) | 2014, VITS Karimnagar
- ▶ Workshop on Android and Mobile App Development – VITS Karimnagar | November 2012
- ▶ Workshop on Network Simulations using NS2 & GLOMOSIM – VITS | August 2010

### National Webinars Convened

- ▶ ERP – Credibility of ERP Packages for Engineering Students | Two-Day National Webinar | June 12–13, 2020 | Speakers: Dr. Seeta Rambabu (CSI Chairman-Hyd) & Mr. Janardhan Reddy (Industry Expert)
- ▶ Python Leading the World | One-Day National Webinar | June 15, 2020 | Speaker: Mr. Yaseen, Python Developer, Freddie Mac, Virginia, USA
- ▶ CyberSecurity: Career Guidance | One-Day National Webinar | June 18, 2020 | Speaker: Mr. Venkatesh Golle, Certified Cybersecurity Professional
- ▶ Data Analytics | One-Day National Webinar | June 13, 2020 | Speakers: Industry Experts from BR Ambedkar Polytechnic College & Vidcentum R&D

## ■ CENTER OF EXCELLENCE – APPLIED AI PROJECTS DEVELOPED

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- ▶ AI-Based Demographics Prediction System: Real-time gender, age, and emotion recognition from live video streams using deep learning models
- ▶ AI-Based Smart Attendance Monitoring System: Biometric-free face-recognition attendance system with automated Excel-based data logging for students and employees

## ■ RESEARCH & PROJECT GUIDANCE (SELECTED TOPICS)

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- ▶ Blockchain-Based Secure Computation Offloading in Vehicular Networks
- ▶ Secure Data Transfer and Deletion from Counting Bloom Filter in Cloud Computing
- ▶ Detection of Fake Online Reviews Using Semi-Supervised and Supervised Learning
- ▶ DCCR: Deep Collaborative Conjunctive Recommender for Rating Prediction
- ▶ Using Data Mining to Predict Hospital Admissions from the Emergency Department
- ▶ Blockchain-Based Data Storage with Privacy and Authentication in IoT
- ▶ Secure IoT Data Outsourcing with Aggregate Statistics and Fine-Grained Access Control

## ■ AWARDS, HONOURS & RECOGNITION

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- ▶ Best Paper Award – ‘Brain Tumor Segmentation Using CNN-Based Visual Geometry’ | IEEE Bangalore, 2023
- ▶ Guinness World Record Attempt Contributor – ‘Real World Applications of Machine Learning in Healthcare’ (‘Thickest Book in the World’) | August 2023
- ▶ Best Author Award – International Journal of Advanced Research and Innovations (IJARAI) for ‘An Alternative Framework for Personalized Information Retrieval Systems’
- ▶ Young Researcher in Computer Science & Engineering – Global Education Awards, 2019
- ▶ Nominated for the Bharath Jyothi Award, 2019
- ▶ Nominated as Best Professor in Computer Science – Prime Time Educational Awards, 2019
- ▶ Best Faculty Award – 2017, 2018 & 2019 | Vivekananda Institute of Technology and Science
- ▶ Certificate of Excellence in Coordination – IBM TGMC
- ▶ Social Worker Recognition – Help Needs India
- ▶ Player of the Event – APPAAA Athletics, GMC Bal Yogi Stadium, Gachibowli, Hyderabad, 2005

## ■ INTERNATIONAL PROFESSIONAL MEMBERSHIPS & FELLOWSHIPS (14)

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<b>Society of Digital Information &amp; Wireless Comms (SDIWC)</b>	Membership ID: 22535
<b>International Association of Computer Science &amp; IT</b>	No. 80350137
<b>Institute of Research Engineers &amp; Doctors (UACEE)</b>	No. AM1010002449
<b>International Association of Engineers (IAENG)</b>	No. 150827
<b>International Computer Science &amp; Engineering Society (ICSES)</b>	ID: #864
<b>International Association of Academicians (IAASSE)</b>	ID: IAASSE0001014
<b>IAENG Society of Artificial Intelligence</b>	Active Member
<b>IAENG Society of Computer Science</b>	Active Member
<b>IAENG Society of Data Mining</b>	Active Member
<b>IAENG Society of Internet Computing &amp; Web Services</b>	Active Member
<b>IAENG Society of Imaging Engineering</b>	Active Member
<b>IAENG Society of Information System Engineering</b>	Active Member
<b>IAENG Society of Scientific Computing</b>	Active Member
<b>IAENG Society of Software Engineering</b>	Active Member

## ■ TEACHING PORTFOLIO

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- ▶ **Undergraduate:** Web Technologies, Python Programming, Operating Systems, Data Mining, Java Programming, Fundamentals of IoT, Multimedia & Rich Internet Applications, DBMS, Principles of Problem Solving, Mobile Computing, Machine Learning, Deep Learning
- ▶ **Postgraduate:** Web Technologies, Web Services, Information Retrieval Systems
- ▶ **Practical Labs:** Python Programming, IoT with Arduino, IoT with Raspberry Pi, Web Technologies (XAMPP/LAMP), Software Testing (WinRunner/QTP), Data Mining (Weka), Active Tcl

## ■ TECHNICAL PROFICIENCY

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<b>Programming Languages</b>	Python, PHP, Java (J2SE/J2EE), VB.NET, ADO.NET
<b>Web Technologies</b>	EJB 2.0, Servlets, JSP, XML, Python Web Frameworks
<b>Application Servers</b>	Apache Tomcat, WebLogic, WebSphere, JBoss
<b>Databases</b>	MySQL, Oracle, Microsoft Access
<b>Operating Systems</b>	Windows Family, Linux (Ubuntu), Android
<b>Tools &amp; Testing Platforms</b>	Quick Test Professional, WinRunner, Weka Data Mining Tool

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## Citations

### Books

- [1] M. A. Kumar, *Differential Equations and Vector Calculus: A Theoretical and Practical Approach*. Jack Sparrow Publishers, 2025.
- [2] M. A. Kumar, *Digital DNA: The Blueprint of Computer Organization*. VEGA International Publishers, Apr. 2025.
- [3] M. A. Kumar, *Real World Applications of Machine Learning in Healthcare*. ESN Publications, Aug. 2023.
- [4] M. A. Kumar, *Object Oriented Programming and Data Structures*. Scientific International Publishing House, 2022.
- [5] M. A. Kumar, *Essentials of Machine Learning*. EliteIdea Solutions India Pvt. Ltd., 2021.

## International Journal Articles

- [6] M. A. Kumar, "Secure AI Watermarking Framework for IP Protection in Multi-Tenant Cloud Platforms," *Int. J. Res. Dev. Eng. Sci.*, vol. 7, no. 6, pp. 69–82, 2025. DOI: 10.63328/IJRDES-V7RI6P9.
- [7] M. A. Kumar, "Advancing Post-Quantum Cryptography: Novel Algorithmic Models and Security Implementations," *Goya Journal*, 2025.
- [8] M. A. Kumar, "Quantum-Enhanced Cryptographic Protocols for Ultra-Secure Data Transmission in Next-Generation Networks," *J. Dalian Univ. Technol.*, vol. 31, no. 12, 2024.
- [9] M. A. Kumar, "Brain Tumor Segmentation Using CNN-Based Visual Geometry," *IEEE Explore*, AIKIIE-2023, 2023. DOI: 10.1109/AIKIIE60097.2023.10390438.
- [10] M. A. Kumar, "An Intelligent Crop Yield Prediction Using Machine Learning and Deep Learning," *Heritage Res. J.*, vol. 72, no. 5, 2024.
- [11] M. A. Kumar, "Fake News Detection in Social Media Using Blockchain Technology," *Dogo Rangsang Res. J.*, vol. 9, no. 1, 2022.
- [12] M. A. Kumar, "Blockchain-Based Secure Data Sharing in Vehicle Social Networks," *Juni Khyat*, vol. 12, no. 1, 2022.
- [13] M. A. Kumar, "A Hybrid Model for Ranked Search Over Encrypted Cloud Using Feature Matching Techniques," *JRMT*, vol. 12, no. 4, 2021.

- [14] M. A. Kumar, "Recommendations for POIs Based on Long and Short-Term Preference Learnings," *UGC CARE Group-I*, vol. 11, no. 3, 2020.
- [15] M. A. Kumar, "An Efficient Analysis on Secure KAC Scheme for Distributed Cloud Storage," *JETIR*, vol. 5, no. 9, 2018.
- [16] M. A. Kumar, "Secure Deduplication with Efficient and Reliable Convergent Key Management in Cloud Storage," *JETIR*, vol. 5, no. 9, 2018.
- [17] M. A. Kumar, "A Comparative Analysis of Feature Detectors and Feature Descriptors (SURF, SIFT)," *IJDCST*, vol. 4, no. 7, 2016.
- [18] M. A. Kumar, "A Survey on Visual Information Retrieval Tools with Wavelets," *IJCST*, vol. 7, no. 4, Oct.–Dec. 2016.
- [19] M. A. Kumar, "Integrated Approaches for Domain Dimensional Information Retrieval Systems Using CORBA, ORB," *IJCER*, vol. 1, no. 2, 2012.
- [20] M. A. Kumar, "Era of Personalized Information Retrieval System: Ranking, Rating and Ontology," *IJARAI*, vol. 1, no. 1, 2013.
- [21] M. A. Kumar, "A Study on Image Transformations in View of Content-Based Image Retrieval," *IJARAI*, vol. 8, no. 2, Nov. 2016.

## International Conference Articles

- [1] M. A. Kumar, "91.2% Accurate, 88% Safer: RL-Powered Decision Systems for Microbial Risk Mitigation in Food Logistics," *Proc. Int. Conf. Emerging Trends in Engineering, Technology & Management (ICETM)*, 2025. DOI: 10.63328/IJRDES-V7CIP4.
- [2] M. A. Kumar, "Towards Generalizable Models in Software Failure Prediction: A Machine Learning Approach," *Proc. ICETM*, 2025. DOI: 10.63328/IJRDES-V7CIP3.
- [3] M. A. Kumar, "Explainable AI for Enhanced Decision-Making in Next-Generation IoT Networks," *Proc. ICETM*, Viswam Engineering College, 2025.
- [4] B. R. Cyril, P. Ramesh, M. Anjankumar, V. Sathiya, K. P. V., and A. Kumar, "Big Data Analytics in IoT Ecosystems," *2025 Int. Conf. Frontier Technologies and Solutions (ICFTS)*, Chennai, India, pp. 1–6, 2025. DOI: 10.1109/ICFTS62006.2025.11031548.
- [5] M. A. Kumar, "Building a Real and Fake Human Faces Dataset for Training and Evaluation of Deep Learning Models," *Proc. DISC*, 2024.
- [6] M. A. Kumar, "Brain Tumor Segmentation Using CNN-Based Visual Geometry," *Proc. IEEE AIKIIE*, Bangalore, 2023.
- [7] M. A. Kumar, "Enhancing Deep Learning Models for Image Recognition Using GANs," *IEEE Bangalore Chapter*, New Horizon College of Engineering, Sept. 2023.
- [8] M. A. Kumar, "Secure Deduplication with Efficient and Reliable Convergent Key Management in Cloud Storage," *Proc. ICITSEIT*, 2018.
- [9] M. A. Kumar, "An Efficient Analysis on Secure KAC Scheme for Distributed Cloud Storage," *Proc. ICITSEIT*, 2018.
- [10] M. A. Kumar, "A Novel Approach of Multi-Model Image Feature Extraction with Invariant Scale Space and Directional Analysis," *Proc. ICRET*, 2017.
- [11] M. A. Kumar, "Privacy Protection Using Generalization for Collaborative Data Publishing," *Proc. ICCSPCIT*, MRCET Hyderabad, 2014.
- [12] M. A. Kumar, "A Novel Approach for Multi-Resolution Analysis & Feature Extraction Using SURF," *Proc. ICSDETMSS*, Shri JNT University, 2016.
- [13] M. A. Kumar, "An Experimental Analysis on Descriptors-Based Visual Information Retrieval," *Proc. IMEASMC*, Jan. 2016.
- [14] M. A. Kumar, "Effective Approaches of Image Processing and Analysis in View of Visual Information Retrieval," *Proc. AICETEAB*, Nov. 2015.
- [15] M. A. Kumar, "Privacy Protection Using Generalization for Collaborative Data Publishing," *Proc. ICCSPCIT*, Hyderabad, 2014.
- [16] M. A. Kumar, "Contemporary Models and Initiatives for Domain-Specific Information Retrieval Systems (FLEX, CLEF, GEOCLEF)," *Proc. AMCM*, Padmavathi Mahila Visvavidyalayam, Tirupati, 2011.
- [17] M. A. Kumar, "Image Retrieval Using Segmentation Methods – A Study," *Proc. Int. Conf. Photonics, VLSI & Signal Processing*, Kakatiya Univ., 2014.

## National Conference Publications

- [18] M. A. Kumar, "Era of Neural Networks in Learning Approaches and Speech Recognition," *Proc. NCICT*, New Horizon College of Engineering, Bangalore, 2010.
- [19] M. A. Kumar, "Exhaustive Usage of Neural Networks in Speech and Optical Character Recognition," *Proc. XIX Nat. Conf. Cryptography & Network Security*, JITS Karimnagar, 2010.
- [20] M. A. Kumar, "Automatic Speech Recognition System in the Perspective of Information Retrieval," *Proc. NCCT*, Univ. PG College, Tirupati, 2010.

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