

PROF. (DR.) B. SRINUVASU KUMAR

B.Tech, M.Tech (CSE), Ph.D. (CSE), PostDoc (Singapore Institute of Technology)



Name:	Prof. (Dr.) B. Srinivasu Kumar
Current Designation:	Professor, Department of Artificial Intelligence & Data Science (AI&DS)
Institution:	Seshadri Rao Gudlavalleru Engineering College (A), Gudlavalleru, Andhra Pradesh
Total Experience:	21+ Years (Teaching, Research & Academic Administration)
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CAREER OBJECTIVE

A dynamic academic leader with over 21+ years of progressive experience in engineering education, Committed to driving institutional excellence through effective academic governance, NBA/NAAC accreditation and quality assurance, curriculum innovation, and faculty & student mentorship — while simultaneously advancing cutting-edge, funded research in Quantum Computing, Artificial Intelligence, Machine Learning and IoT, and building a strong culture of research, innovation and industry-academia collaboration that elevates institutional rankings and global academic standing.

EDUCATIONAL QUALIFICATIONS

Degree	Specialization / Research Title	University / Institution	Year
Postdoctoral Fellowship (PDF)	Quantum Computing — “A Hybrid Quantum Machine Learning Algorithm for High-Dimensional Molecular Pattern Identification in Omics Data”	Singapore Institute of Technology (SIT), Singapore	2026
PG Certificate	Artificial Intelligence & Machine Learning with Business Analytics (DoMS)	Indian Institute of Technology, Kanpur (IIT Kanpur)	2026
PG Diploma (Pursuing)	Quantum Technologies	Malaviya National Institute of Technology (MNIT), Jaipur	Ongoing
Ph.D.	Computer Science & Engineering — “Development of Energy and Network Efficient Routing Mechanisms for Enhancing the Network Lifetime in Wireless Sensor-based IoT Networks”	Annamalai University (AU)	2024
M.Tech.	Computer Science & Engineering	JNTUK, Kakinada, AP.	2009
B.Tech.	Computer Science & Information Technology	JNTUH, Hyderabad, TG.	2005

ACADEMIC & PROFESSIONAL EXPERIENCE (21+ YEARS)

Position	Organization	From	To
Professor, AI&DS	SR Gudlavalleru Engineering College, Gudlavalleru	1 May 2025	Present
Associate Professor, IT	Gudlavalleru Engineering College, Gudlavalleru	1 Jul 2012	30 Apr 2025
Assistant Professor, IT	Gudlavalleru Engineering College, Gudlavalleru	1 Dec 2010	31 Jun 2012

Position	Organization	From	To
Assistant Professor, CSE	Prajna Institute of Technology & Management	7 Dec 2008	30 Nov 2010
Assistant Professor, CSE	Sri Sarathi Institute of Engineering & Technology	Nov 2006	4 Dec 2008
I/c HoD & Asst. Prof, CSE	Akula Goppaya College of Engg & Technology	Mar 2006	Oct 2006
Assistant Professor, CSE	Akula Goppaya College of Engg & Technology	Jun 2005	Feb 2006

SUMMARY OF ACADEMIC, RESEARCH & INSTITUTIONAL CONTRIBUTIONS

#	Type of Work	Number	Remarks
1	Publication of Journals	27	SCI / SCOPUS / ESCI / UGC-CARE indexed
2	International Conference Papers	7	IEEE, Elsevier, ACM, IOP (SCOPUS indexed)
3	Patents	4	Granted & Published (IoT, Cloud Security, Healthcare)
4	Books Published	1	Textbook with ISBN — Software Testing Methodologies
5	Book Chapters	1	Wiley / Scrivener Publishing (International)
6	Research Papers Reviewer	5	Mathematics & Computer Science (MCS); ICSCIS, USA
7	Professional Memberships	10	IEEE, IEEE-CIS, IEEE-WIE, CSI, ISTE, ACM, IAENG, SAE, SLT
8	Certifications	3+	IIT Delhi (SFRF), Wipro TalentNext (WCF), Microsoft MTA
9	Honors / Achievements	9	Best Teacher Awards & Appreciation Letters etc
10	Resource Person / Guest Lectures	15	AI, DBMS, Big Data, OBE, Infosys/Oracle industry programs
11	Workshops / FDPs Attended& Conducted	60+	National & International — IITs, NITs, Wipro, MeitY
12	PG / UG Projects Guided (Research)	40+ completed, 5 ongoing	Computer Science & allied domains

RESEARCH AREAS

- Quantum Computing, • Data Science, • Artificial Intelligence & Machine Learning
- Wireless Sensor Networks & Internet of Things — Ph.D. research domain

RESEARCH CREDENTIALS

Citations:	Google Scholar: 43
h-index:	4 (per Google Scholar)
i10-index:	1 (per Google Scholar)
ORCID:	orcid.org/0000-0002-6869-186X
Scopus Author ID:	56470755800 — View Profile
Google Scholar:	View Profile
Vidwan-ID:	View Profile
Web of Science:	ResearcherID: ABE-1326-2020 — View Profile
ResearchGate:	View Profile
SCIProfiles:	View Profile

RESEARCH GUIDANCE

Category	Completed	Ongoing
PG & UG (Research)	40+	5

PATENTS

Title	Application / Patent No.	Year	Status
A Smart Medicine Dispenser with Efficient Monitoring System and Method Thereof	202241061747	2022	Granted
Lightweight Efficient Security Scheme for Cloud Data Security	202241023838	2022	Published
A System and Method for Efficient Communication between IoT Devices in Heterogeneous IoT Environment using ML	2021102050	2021	Granted
Enhancement of Quality of Service in Wireless Sensor Network by Redundant Sensors Controlling	202041051968	2020	Published

CERTIFICATIONS

Logo	Certification Details
	Postgraduate Certificate in Artificial Intelligence & Machine Learning with Business Analytics — DoMS, IIT Kanpur
	Summer Faculty Research Fellow (SFRF) Programme, 2018 — IIT Delhi (Continuing Education Programme)
	WIPRO TalentNext Certification — 93.54% score ; recognised as Wipro Certified Faculty (WCF) & Mentor for Project-Based Learning in Database Solutions Expert (DSE)
	Microsoft Technology Associate (MTA) — Database Fundamentals
	Python for Data Science & Quantum Computing courses

HONORS & ACHIEVEMENTS

- Felicitated by **Lions Club** of Gudlavalleru on Engineers' Day in recognition of the successful completion of the Postdoctoral Programme at Singapore Institute of Technology (SIT)
- Appointed **Editorial Board Member**, Mathematics and Computer Science (MCS) journal (Sep 2025 – Sep 2028), **USA**
- Multiple Letters of Appreciation ("**Excellent**" rating) for teaching Computer Networks, Design & Analysis of Algorithms, Compiler Design and Database Management Systems (2012–2022), Gudlavalleru Engineering College
- **Best Academic Performance Award**, 2007–08 — Sri Sarathi Institute of Engineering & Technology, Nuzvid
- **Best Teacher Award**, 2005–06 — Akula Goppaya Engineering College, Thadepalligudem

PROFESSIONAL MEMBERSHIPS

Society	Membership No.	Grade
Institute of Electrical and Electronics Engineers (IEEE)	97353177	Member
IEEE Computational Intelligence Society (IEEE-CIS)	—	Member
IEEE Women in Engineering (IEEE-WIE)	—	Member
Computer Society of India (CSI)	01199490	Life Member
Indian Society for Technical Education (ISTE)	LM 86463	Life Member
Association for Computing Machinery (ACM)	7758993	Member
AICTE Approved Faculty	1-457484157	Faculty ID
International Association of Engineers (IAENG)	308348	Member
Society of Automotive Engineers India (SAEIndia)	7190410550	Member
Society for Learning Technologies (SLT)	LM515	Life Member

ADMINISTRATIVE & INSTITUTIONAL RESPONSIBILITIES

Current Roles — SR Gudlavalleru Engineering College

Role / Responsibility	Since
Member, College Management Committee (CMC)	Dec 2025
Member, College Academic Council (CAC)	Dec 2025
Member, Curriculum Development & Review Committee	Dec 2014
Member, Anti-Ragging Committee	Dec 2010
Coordinator, Quantum Innovation Center	Dec 2025
Mentor , Artificial Intelligence & Data Science Department	2025
Academic Coordinator & Project Coordinator , AI&DS Department	2025
IEEE Student Branch Counsellor (SRGEC) & Branch Chapter Advisor , IEEE-CIS / IEEE-WiE	2026
Member, Board of Studies (BoS) — Dept. of AI&DS	2025
Member, Board of Studies (BoS) — Dept. of Information Technology	2014
Coordinator, TCS-iON Online Examinations	Dec 2012

Prior Leadership Roles — Gudlavalleru Engineering College (2012–2025)

Role / Responsibility	Period
Coordinator, Training & Placement Cell	2012–2020
Academic Coordinator, AQAR Coordinator, NBA Coordinator & NAAC Coordinator, IT Department	2013–2025, various tenures
Higher Learning Coordinator, IT Department	2018–2022
CMC Chairman, IT Department	2012–2024
Member, Discipline Committee	2012–2023
Warden, Boys Hostel	2011–2012

Earlier Institutional Roles

Role / Responsibility	Institution / Event
Convener , Technical Symposium TEXPERIA-2010	PITAM, Palasa
Selection Panel Member , National Paper Presentation PRATEEKA-2008	SSIET, Nuzvid
ISTE Coordinator	Sri Sarathi Institute of Engineering & Technology (SSIET), Nuzvid

PUBLICATION OF JOURNALS (27)

#	Title	Journal / Outlet DOI or URL	Year / Status
1	A Hybrid Quantum Machine Learning Algorithm for High-Dimensional Molecular Pattern Identification in Omics Data	Expert Systems with Applications (SCI Q1) <i>DOI/URL: Not yet available (paper under review)</i>	2026 – Under review
2	A QHSO Optimized Quantum-Enhanced TabNet Model for Student Employability Prediction using Emotional Quotient	Expert Systems with Applications (SCI Q1) <i>DOI/URL: Not yet available (paper under review)</i>	2026 – Under review
3	A Quantum-Enhanced Phishing Threat Detection Network using QSFWOA Feature Selection & QCNN–BiGRU Model	Expert Systems with Applications (SCI Q1) <i>DOI/URL: Not yet available (paper under review)</i>	2025 – Final review
4	DOTRNet: Dual Output Temporal Recurrent Network for Simultaneous Stock Market Price and Risk Prediction	Expert Systems with Applications (SCI Q1) <i>DOI/URL: Not yet available (paper under review)</i>	2025 – Final review
5	QSAINET: Quantum Self-Attention Intrusion Network with Quantum-Inspired Bobcat Optimization for IoT Cyberattack Detection	Expert Systems with Applications (SCI Q1) <i>DOI/URL: Not yet available (paper under review)</i>	2025 – Under review
6	Integrating Low-Complexity Elliptic Galois Cryptography with Hybrid Deep Learning & Blockchain for Cybersecurity Threat Detection	Journal of Supercomputing, Springer (SCI Q1) <i>DOI/URL: Not yet available (paper under review)</i>	2025 – Editor review
7	Cybersecurity Threat Detection & Resilience in National Critical Infrastructure using Hybrid Deep Learning & Blockchain	Knowledge Based Systems (SCI Q1) <i>DOI/URL: Not yet available (paper under review)</i>	2025 – Editor review
8	Enhanced Blockchain for Anomaly Detection in Internet of Healthcare Things using Optimized Spiking Attentional Neural Network with FA-ResNet	Journal of Supercomputing, Springer (SCI Q1) <i>DOI/URL: Not yet available (paper under review)</i>	2025 – Editor review
9	Advanced Blockchain-based Cybersecurity Anomaly Detection in IoHT via Optimised Diffusion-Variational Graph Neural Networks	Journal of Circuits, Systems & Computers (World Scientific, SCI) <i>DOI/URL: Not yet available (paper under review)</i>	Accepted – Indexing awaited
10	Secure Pool Mining through SVM-Based Miner Classification and Computation Validation in Blockchain Networks	IEEE Xplore DOI: 10.1109/OCIT65031.2024.00102	2025
11	Optimal Energy-Delay Scheduling using Improved Beetle Antennae Search (BAS) for Energy-Harvesting WSNs	Wireless Personal Communications, Springer (SCI) DOI: 10.1007/s11277-022-09828-2	2022
12	A Learning based Secure Routing Approach using Deep Reinforcement Learning in IoT Integrated WSN	Intl. Journal on Recent & Innovation Trends in Computing (IJRITCC) – SCOPUS ISSN: 2321-8169	2023

#	Title	Conference / Publisher	Year	DOI / ISBN
3	Contemporary Ways of Dairy Farming with Usage of Smart Wireless Systems	ICACIT'19, Annamalai University	2019	ISBN 978-81-942094-0-9
4	Smart System to Detect the Maturity Level of Fruit Size Using IoT	CITAES-18, IJASRM (Special Issue 3), SRGEC, Gudlavalleru	2019	ISSN 2455-6378
5	Participation — 4th International Conference on Big Data Analytics	NIT Warangal	2015	—
6	An Efficient Low Power & High Performance in MPSOC	WCI'15, ACM, Kochi (SCOPUS)	2015	DOI: 10.1145/2791405.2791551
7	An Effective Approach for Discovering Relevant Semantic Associations Based on User Specified Relationships	ERCICA 2013, Elsevier, Jalandhar (SCOPUS)	2013	ISBN 9789351071020

BOOKS & BOOK CHAPTERS

Type	Title	Publisher	Year
Book Chapter	“Sailfish Optimizer Algorithm (SFO) for Optimized Clustering in IoT for Healthcare Industry”, in Modeling and Optimization of Optical Communication Networks (DOI: 10.1002/9781119839569.ch19)	Wiley / Scrivener Publishing	2023
Book	“Methodologies for Software Testing”, First Edition (ISBN 978-81-946383-3-9)	One Press Publishing, Chennai	2021

RESOURCE PERSON / GUEST LECTURES

#	Topic	Institution / Organizer	Date
1	Resource Person, 5-Day Online EDP on “AI for Inclusive Higher Education” — session on AI in Adaptive Learning Systems, Intelligent Tutoring & Automated Assessment	VIT-AP University	Jul 2026
2	Guest Lecture: “Will AI Replace Humanity or Redefine It?”	Andhra Loyola Institute of Engineering & Technology, Vijayawada	Apr 2026
3	Outcome Based Education — Faculty Development Talk	SR Gudlavalleru Engineering College	2025 & 2018
4	Design and Analysis of Algorithms — Faculty Orientation Programme	SR Gudlavalleru Engineering College	2024
5	Personality Development Sessions — 1st-year B.Tech. Induction Programme	SR Gudlavalleru Engineering College-IT & AI&DS	2020–2026
6	Advanced Database Concepts, DBMS and Computer Graphics — Guest Lectures	Lakireddy Balreddy Engineering College, Gudlavalleru Engineering College & ASR Engineering College, Tanuku	2006–2015
7	Campus Connecting Programme (Infosys) — DBMS for CSE/IT/ECE students	Gudlavalleru Engineering College & SSIET , Nuzvid	2008–2015

WORKSHOPS / FDPS ATTENDED & CONDUCTED (60+)

Extensive participation and coordination of national & international Faculty Development Programmes across leading institutes including IIT Delhi, IIT Bombay, IIT Kharagpur, IIT Kanpur, IIT Guwahati, IIT Roorkee, NIT Warangal, NIT Raipur, NIT Patna, MNIT Jaipur, and industry partners such as Wipro, Infosys and Microsoft, spanning Quantum Computing, AI/ML, Blockchain, Cybersecurity, Cloud Computing, IoT, Big Data and Outcome-Based Education. Select recent highlights:

- Blockchain, Fintech and Cyber Security — NIT Raipur (Jan 2025)
- Trends in Threat Analysis of Cyber Attacks in ML — Vardhaman College of Engineering (Oct 2024)
- Empowering Engineers through Advanced AI & ML Technologies — Institution of Engineers (India) with SRGEC (Oct 2024)
- Wipro Certified Faculty Program — Database Solutions Expert, TalentNext WIPRO (Sep 2024)
- NLP Unleashed: Cutting-Edge Methods & Applications — Vardhaman College of Engineering (Aug 2024)
- Business Intelligence using Power BI — Skill Nation (Aug 2024)
- Unity Real-Time 3D Fundamentals for AR/VR — SRGEC with ARK Infosolutions (Mar 2024)
- Emerging Research Trends in CSE — **JNTU Vijayanagaram**, 15-day course (Jun–Jul 2023)
- Two-week FDP on Python Programming — IIT Kanpur, IIT Guwahati, MNIT Jaipur, NIT Patna, IIT Roorkee, NIT Warangal, PDPM IITDM Jabalpur (MeitY, AICTE/UGC recognised, 2021)
- Six-week Summer Faculty Research Fellow Program — IIT Delhi (2018)
- Two-week ISTE workshops on Cyber Security, Computer Networks, Computer Programming and DBMS — **IIT Bombay (2013–2014)**
- Two-week ISTE STTP on Introduction to Design of Algorithms (Coordinator) — **IIT Kharagpur (2015)**
- CIT Teacher Training Program with Mastery — **IIIT-Hyderabad (2012)**
- Advanced Faculty Training, **C-DAC Hyderabad** with JNTU — HRD Division, Dept. of IT, Govt. of India (2012)
- Complete record of 60+ workshops, FDPs and conferences (2000–2025) available on request.

CORE TEACHING / INTEREST AREAS

Machine Learning • Soft Computing • Quantum Computing • Database Management Systems • Design & Analysis of Algorithms • Operating Systems • Computer Networks • Compiler Design • Artificial Intelligence • Internet of Things • Computer Graphics • Big Data Analytics • Design Patterns • Software Testing Methodologies • Object Oriented Analysis & Design (UML)

KEY STRENGTHS

Academic Leadership & Administration

- Curriculum development and NBA/NAAC/NIRF accreditation experience across two institutions over 12+ years
- Strong record in departmental coordination — academics, placements, research, discipline and quality assurance
- Proven ability to mentor faculty and build department-level research and innovation culture

Research & Innovation

- Active researcher in Quantum Computing, AI/ML and Cybersecurity with a strong SCI/SCOPUS publication pipeline
- 4 patents, 1 book, 1 international book chapter, and consistent PG/UG research guidance output

Teaching, Mentoring & Technical Skills

- Skilled in outcome-based, project-based and flipped-classroom pedagogy; proficient with SQL/NoSQL databases, networking, data structures & algorithms, and software engineering best practices
- Excellent communication, team collaboration, time management and adaptability to emerging technologies