



Dr.B.SRINUVASU KUMAR

PERMANENT ADDRESS:

Prof. (Dr.) B. SRINUVASU KUMAR, B.Tech, M.Tech (C.S.E), Ph.D (C.S.E),

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OBJECTIVE:

*To secure a challenging Computer Science Engineering teaching position where I can leverage my expertise and **passion for the field to inspire and mentor students, fostering a collaborative learning environment that promotes both academic excellence, research and practical application of knowledge.***

ACADEMIC WORK EXPERIENCE: 21 Years

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|---|
| <ul style="list-style-type: none">• Working as a Professor in the Department of Artificial Intelligence and Data Science (AI&DS) at SR Gudlavalleru Engineering College, from 1st May 2025 to till date. |
| <ul style="list-style-type: none">• Worked as an Associate Professor in the Department of Information Technology at Gudlavalleru Engineering College, from 1st July 2012 to 30th April 2025. |
| <ul style="list-style-type: none">• Worked as an Assistant Professor in the Department of Information Technology at Gudlavalleru Engineering College, from 1st Dec 2010 to 31st June 2012. |
| <ul style="list-style-type: none">• Worked as an Assistant Professor in the Department of Computer Science & Engineering at Prajna Institute of Technology & Management, from 7th Dec 2008 to 30th Nov 2010. (One-year study leave) |
| <ul style="list-style-type: none">• Worked as an Assistant Professor in the Department of Computer Science & Engineering at Sri Sarathi Institute of Engineering & Technology, from Nov 2006 to 4th Dec 2008(One-year study leave). |
| <ul style="list-style-type: none">• Worked as Incharge Head of the Department & Assistant Professor of C.S.E, Akula Goppaya College of Engineering & Technology from Mar 2006 to Oct 2006. |
| <ul style="list-style-type: none">• Worked as an Assistant Professor of C.S.E, Akula Goppaya College of Engineering & Technology from June 2005 to Feb 2006. |

ACADEMIC QUALIFICATIONS:

- **Awarded Ph.D.**, in “Development of Energy and Network Efficient Routing Mechanisms for Enhancing the Network Lifetime in Wireless Sensor-based IoT Networks” from **Computer Science & Engineering**, Annamalai University(AU), 2nd Feb 2024.

Foreign reviewers and Indian Reviewers gave the best compliments on my thesis.

- **M.Tech. in Computer Science & Engineering** with first class under **JNTUK Kakinada, Dec 2009.**

- **B.Tech. in Computer Science & Information Technology** with first class under **JNTUH, Hyderabad April 2005.**

S. No	Type of Work	Total Number	Remarks
1	Research Papers Reviewer	5	Mathematics and Computer Science (MCS) ICSCIS-Smart computing and Information Systems
2	Professional Memberships	10	IEEE, IEEE-CIS, IEEE-WIE, CSI, ISTE, ACM, IAENG, SAE and SLT
3	Certifications	3	IIT Delhi (SFRF), Wipro TalentNext, Microsoft MTA
4	Publication of Journals	25	SCI, SCOPUS, ESCI, UGC-CARE indexed;
5	International Conferences	7	IEEE, Elsevier, ACM, IOP(SCOPUS indexed)
6	Books Publication	1	Textbook published with ISBN (Software Testing Methodologies)
7	Book Chapter Publication	1	Wiley / Scrivener Publishing (International)
8	Patents	4	Granted & Published (IoT, Cloud Security, Healthcare)
9	Honors / Achievements	8	Best Teacher Awards & Appreciation Letters
10	Guest Lectures	14	DBMS, Big Data, OBE, Industry programs (Infosys, Oracle) to different Institutes
11	Interesting Subjects	14	AI, Quantum Computing, Soft Computing, IoT, Big Data, DBMS, DAA, CD, OS, CN etc
12	Workshops / FDPs Attended / Conducted	60+	National & International FDPs, ATAL, IITs, NITs, Wipro
13	B.Tech Projects Guided	40+	Computer science-based

PROFESSIONAL MEMBERSHIPS:

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

Certifications:



IIT Delhi

Indian Institute of Technology Delhi

Successfully Completed One month the Summer Faculty Research Fellow Programme 2018 under Continuing Education Programme held from **28-05-2018 to 28-06-2018. at IIT Delhi.**



Successfully cleared the **WIPRO TalentNext certification assessment with 93.54%**, and I recognized as a **Wipro Certified Faculty (WCF)** and **MENTOR for project-based learning (PBL)** in **Database Solutions Expert (DSE)** by WIPRO.



Qualified **Microsoft Technology Associate (MTA)** certification on "Database Fundamentals"

HONORS/ ACHIEVEMENTS:

- In recognition of the appointment as an **Editorial Board Member of Mathematics and Computer Science (MCS)** ISSN Online: 2575-6028; ISSN Print: 2575-6036
<http://www.sciencepublishinggroup.com/journal/mcs> from September 14, 2025 to September 14, 2028
- Received **letter of Appreciation** on review on academic feedback and performance evaluation (**Excellent**) in “**Computer Networks**” course to III B.Tech., in the academic year 2017-2018 from HoD of Information Technology, Gudlavalleru Engineering College, Gudlavalleru.
- Received **letter of Appreciation** on review on academic feedback and performance evaluation (**Excellent**) in “**Design and Analysis of Algorithms**” course to III B.Tech., in the academic year 2016-2017 from HoD of Information Technology, Gudlavalleru Engineering College, Gudlavalleru.
- Received **letter of Appreciation** on review on academic feedback and performance evaluation (**Excellent**) in “**Compiler Design**” course to III B.Tech., in the academic year 2015-2016, 2019-2020 from HoD of Information Technology, Gudlavalleru Engineering College, Gudlavalleru.
- Received **letter of Appreciation** on review on academic feedback and performance evaluation (**Excellent**) in “**Database Management Systems**” course to II B.Tech., in the academic year 2013-2014, 2014-2015, 2017-2018, 2021-2022 from HoD of Information Technology, Gudlavalleru Engineering College, Gudlavalleru.
- Received **letter of Appreciation** on review on academic feedback and performance evaluation (**Excellent**) in “**Computer Graphics**” course to III B.Tech., semester-I section-A in the academic year 2012-2013 from HoD of Information Technology, Gudlavalleru Engineering College, Gudlavalleru.
- **Best Academic Performance** of the academic year 2007-2008 award from Sri Sarathi Institute of Engineering and Technology, Nuzvid.
- **Best teacher award** of the academic year 2005-2006 of Akula Goppaya Engineering College, Thadepalligudem.

ADDITIONAL RESPONSIBILITIES:

- Selected as an **IEEE Student Branch Counselor of SRGEC** and **Branch Chapter Advisor of IEEE-CIS and IEEE-WiE** from 2026 to till date.
- **Mentor of AI&DS department**, SR Gudlavalleru Engineering College, Gudlavalleru, from 2025 to till date.
- **Academic Coordinator of AI&DS department**, SR Gudlavalleru Engineering College, Gudlavalleru, from 2025 to till date.
- **Project coordinator AI&DS department**, SR Gudlavalleru Engineering College, Gudlavalleru, from 2025 to till date.
- **Academic Coordinator** of IT department, SR Gudlavalleru Engineering College, Gudlavalleru from 2023 to 2025.

- **AQAR Coordinator** of IT department, SR Gudlavalleru Engineering College, Gudlavalleru from 2023 to 2025.
- **Mentor of IT department**, SR Gudlavalleru Engineering College, Gudlavalleru from 2019 to 2023.
- **Higher learning Coordinator** of IT department, SR Gudlavalleru Engineering College, Gudlavalleru from 2018 to 2022.
- **Academic Coordinator** of IT department, SR Gudlavalleru Engineering College, Gudlavalleru from 2018 to 2022.
- **AQAR Coordinator** of IT department, SR Gudlavalleru Engineering College, Gudlavalleru from 2018 to 2022.
- **NBA Co-Coordinator** of IT department, SR Gudlavalleru Engineering College, Gudlavalleru from 2018 to 2022.
- **NAAC Coordinator** of IT department, SR Gudlavalleru Engineering College, Gudlavalleru from 2018 to 2025.
- **NAAC Criteria-II Coordinator** of SR Gudlavalleru Engineering College, Gudlavalleru from 2018 to 2025.
- **Student Counselor** of IT department, SR Gudlavalleru Engineering College, Gudlavalleru from 2018 to 2025.
- **NBA Coordinator** of IT department, Gudlavalleru Engineering College, Gudlavalleru from 2013 to 2018.
- Member of **Discipline committee** of IT department, Gudlavalleru Engineering College, Gudlavalleru from 2012 to 2025.
- Member of **Discipline committee** of Gudlavalleru Engineering College, Gudlavalleru from 2012 to 2023.
- **Coordinator for TCS-ION online examinations** of GUDLAVALLERU ENGINEERING COLLEGE, Gudlavalleru, from Dec 2012 to till date.
- **Coordinator for Training & Placement** cell of GUDLAVALLERU ENGINEERING COLLEGE, Gudlavalleru, from July 2012 to 2020.
- **CMC Chairmen of IT department**, Gudlavalleru Engineering College, Gudlavalleru from 2012 to 2024.

- **Coordinator for NBA VII & VIII Criteria's** ,Dept of IT, GUDLAVALLERU ENGINEERING COLLEGE, Gudlavalleru, during 2010- 2012.
- **Warden of Boys Hostel** ,Gudlavalleru Engineering College, During 2011-2012.
- **OOS lab In-charge** of IT department, Gudlavalleru Engineering College, Gudlavalleru from 2010 to 2025.
- **Class Teacher** of IT department, Gudlavalleru Engineering College, Gudlavalleru from 2010 to 2012.
- **Convener** for Technical Symposium TEXPERIA-2010 at PITAM, Palasa.
- **Selection panel member** for National level paper presentation PRATEEKA-2008 at SSIET, Nuzvid.
- **ISTE coordinator** for Sri Sarathi institute of Engineering & technology, Nuzvid.
- **Time table coordinator** at Sri Sarathi institute of Engg & Technology. Nuzvid.
- **Class Work Monitoring Coordinator** for C.S.E Dept Sri Sarathi Institute of Engineering & technology, Nuzvid.

Strengths:

I. Soft Skills:

- **Problem-Solving:** Excellent analytical and problem-solving skills, adept at identifying and resolving complex technical challenges.
- **Collaboration:** Ability to work effectively in teams and foster collaboration among students.
- **Time Management:** Proven ability to manage multiple tasks and meet deadlines effectively.
- **Adaptability:** Able to adapt to changing technologies and pedagogical approaches.
- **Organization:** Strong organizational skills, able to manage course materials, assignments, and student records efficiently.
- **Patience & Empathy:** Demonstrates patience and empathy in working with students from diverse backgrounds and skill levels.

II. Teaching & Mentoring Skills:

- **Curriculum Development:** Experienced in designing and implementing engaging and effective curricula aligned with industry standards and best practices Developed three courses” DBMS, DBMS Lab, Compiler Design”
- **Instructional Design:** Proficient in utilizing a variety of teaching methodologies to cater to diverse learning styles. project-based learning, flipped classroom, problem-based learning, Using different tools **Kahoot, QUIZZZ.**
- **Mentorship & Advising:** Skilled in providing individual support and guidance to students, fostering their academic and professional development.
- **Classroom Management:** Effective at creating a positive and productive learning environment that encourages participation, collaboration, and respect.
- **Assessment & Evaluation:** Proficient in designing and administering fair and comprehensive assessments to accurately measure student learning outcomes.
- **Communication:** Excellent communication skills, able to clearly articulate complex technical concepts to students of varying backgrounds and skill levels.
- **Student Engagement:** Proven ability to foster student engagement and enthusiasm for learning, leading to high levels of student participation and satisfaction.

III. Technical Skills:

- **Databases:** Experience with database management systems (SQL, NoSQL) and database design principles.
- **Operating Systems:** Familiarity with various operating systems (Windows, Linux, macOS) and their functionalities.
- **Networking:** Understanding of networking concepts and protocols (TCP/IP, HTTP).
- **Data Structures & Algorithms:** Strong understanding of fundamental data structures and algorithms, with experience applying them to solve real-world problems.
- **Software Engineering Principles:** Knowledge of software development methodologies and best practices for software design, testing, and deployment.

INTERESTING SUBJECTS:

- Soft Computing
- Quantum Computing
- Database Management Systems
- Design and 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 Through UML

Publication of Journals: (25)

1. A Research paper entitled “**A Quantum-Enhanced Phishing Threat Detection Network Using QSFWOA Feature Selection and QCNN–BiGRU Model**” was submitted to **Expert Systems with Applications (SCI Q1)** in November 2025. Under Review.
2. A Research paper entitled “**DOTRNet: A Novel Dual Output Temporal Recurrent Network Framework for Simultaneous Stock Market Price and Risk Prediction**” was submitted to **Expert Systems with Applications (SCI Q1)** in November 2025. Under Review.
3. A Research paper entitled “**QSAINET: A Quantum Self-Attention Intrusion Network with Quantum-Inspired Bobcat Optimization Algorithm for Cyberattack Detection in IoT Network**” was submitted to **Expert Systems with Applications (SCI Q1)** in November 2025. Under Review.
4. A Research paper entitled “**Integrating Low-Complexity Elliptic Galois Cryptography with Hybrid Deep Learning and Blockchain for Cybersecurity Threat Detection in Critical Infrastructure**” was submitted to **Springer Nature the Journal of Supercomputing (SCI Q1)** in April 2025. Editor review completed, waiting for indexing.
5. A Research paper entitled “**Cybersecurity Threat Detection and Resilience in National Critical Infrastructure utilizing Hybrid Deep Learning and Blockchain Integration**” was submitted to **Knowledge based systems (SCI Q1)** in June 2025. Editor review completed, waiting for indexing.
6. A Research paper entitled “**Enhanced Blockchain for Anomaly Detection in Internet of Healthcare Things using Optimized Spiking Attentional Neural Network with FA-ResNet**” was submitted to **Springer Nature The Journal of Supercomputing (SCI Q1)** in April 2025. Editor review completed, waiting for indexing.
7. A Research paper entitled “**Advanced Blockchain-based Cybersecurity Anomaly Detection in Internet of Healthcare Things through Optimised Diffusion-Variational Graph Neural Networks**” was submitted to **Taylor & Francis Group and WILEY (SCI Q1)** in March 2025. Editor review completed, waiting for indexing.
8. A Research paper entitled “**Secure Pool Mining through SVM-Based Miner Classification and Computation Validation in Blockchain Networks**” was published by **IEEE Xplore** May 2025. DOI: [10.1109/OCIT65031.2024.00102](https://doi.org/10.1109/OCIT65031.2024.00102)

9. A Research paper entitled “**Optimal Energy-Delay Scheduling using Improved Beetle Antennae Search (BAS) for Energy-Harvesting WSNs**” was published by publisher **Springer**, Journal of Wireless Personal Communications published on July 2022 (SCI). <https://doi.org/10.1007/s11277-022-09828-2>
10. Paper published on “A Learning based Secure Routing Approach using Deep Reinforcement Learning in IoT Integrated Wireless Sensor Network” , **International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC)**, **Volume: 11 Issue: 9 ISSN: 2321-8169 (SCOPUS Indexed)**.
11. A Research paper entitled “**A Novel Energy Efficient approach for Improving network lifetime using Multi-hop Routing Protocol with Mobile Wireless Sensor Networks**” was published by Journal of Theoretical and Applied Information Technology, ISSN: 1992-8645, Vol.100.No24, Dec 2022, **SCOPUS Indexed**.
<http://www.jatit.org/volumes/Vol100No24/8Vol100No24.pdf>
12. A Research paper entitled “**A Novel method for enhancing the network lifetime using energy efficient routing protocol approach for wireless IoT sensor network applications**” was published by Journal of International Journal of Engineering Trends and Technology (IJETT), Volume 70 Issue 11, 277-287, November 2022, ISSN: 2231 – 5381,**SCOPUS Indexed**.
<https://doi.org/10.14445/22315381/IJETT-V70I11P230>
13. A Research paper entitled “**An Enhanced Genetic Algorithm (EGA)-based multi-hop path for energy efficient in Wireless Sensor Network (WSN)**” was published by International Journal of Advanced Computer Science and Applications (IJACSA), Volume 13 Issue 4, 2022.ISSN:21565570 (**ESCI and SCOPUS**).
Digital Object Identifier (DOI) : **10.14569/IJACSA.2022.01304114**
14. A Research paper entitled “**Sailfish Optimizer Algorithm (SFO) For Optimized Clustering In Wireless Sensor Network (WSN)**” was published by Journal of Engineering, Design and Technology, Emerald published on 25th August 2021. ISSN: 1726-0531 (**ESCI & SCOPUS**).
<https://doi.org/10.1108/JEDT-02-2021-0087>
15. **Dr.B. Srinivasu Kumar**, Dharshitha , G. Charan Sai , B. Vasu Vamsi Krishna, Ch. Karthik Eshwar, A Research paper entitled “**Deepfake Detection and Reconstruction of the Original ImageL**”, was published by Journal of Advanced Zoology, Vol-45, PP 1-8,ISSN: 0253-7214 , 2024.
<https://jazindia.com/index.php/jaz/article/view/3699>
<https://doi.org/10.53555/jaz.v45iS2.3699>
16. **Dr.B. Srinivasu Kumar**, M. Divya Sri , K. Rakesh Vinay , K. Surya Krishna Sri, K. Jessica A Research paper entitled “ **Online proctoring with face analysis and object recognition using Yolo**”, was published by Journal of Advanced Zoology, Vol-45, PP:18-24, ISSN: 0253-7214 , 2024.
<https://jazindia.com/index.php/jaz/article/view/3701>
<https://doi.org/10.53555/jaz.v45iS2.3701>

17. **Dr.B. Srinivasu Kumar**, V. Madhuri, P. Lakhmi Pravallika, S. Ravi Teja, R. Saranya A Research paper entitled “ **Rural Education and Employment Skill Improvement Model Using Artificial Intelligence**”, was published by Journal of Advanced Zoology, Vol-45, PP:18-24, ISSN: 0253-7214 , 2024.
<https://jazindia.com/index.php/jaz/article/view/3700>
<https://doi.org/10.53555/jaz.v45iS2.3700>
18. Published a Research paper (SCOPUS) entitled “**Wireless Sensor Network and IoT-Based Systems for Healthcare Application**” was Published in **Solid State Technology Issue Vol. 63 No. 6 (Dec 2020)**
<http://solidstatetechnology.us/index.php/JSST/article/view/8583>
19. Published a Research paper entitled “**Improved Multi-Path Trust Routing for Improving QoS in Heterogeneous IoT Based WSN**”, Journal of **Mukt Shabd Journal**, ISSN: 2347-3150, Volume 12 Issue 6, 1802-1815, (UGC Care).
DOI:10.0014.MSJ.2023.V12I06.0086781.1144081
20. Paper published on “ **Boosting Of Energy-Efficiency In IoT Devices**” in Journal of Xidian University An UGC-CARE Approved Group 2 Journal, Volume 14, Issue 7, pages 604-607, 2020. <https://doi.org/10.37896/jxu14.7/062>
21. Paper published on “**FRUIT QUALITY INSPECTION SYSTEM USING IoT**” in International Journal of Advanced Science Letters , Volume 26, Issue 6, pages 525-531 June-2020 (E-ISSN:1936-7317) (UGC Care).
22. Paper published on “**An Efficient Approach for Inter-Process Synchronization Problem**” in the International Journal of Software Engineering and its Applications (IJSEIA), Vol.8, No.12 (2014), PP.209-218. SCOPUS Indexed.

<https://www.scopus.com/record/display.uri?eid=2-s2.0-84920522701&origin=inward&txGid=8de651f5ef86ab199ffd2cbcdf4685ba>
23. Paper published on “**Content Based Video Retrieval Using Multi Features**” in International Journal of Computer Science & Technology (IJCST) Vol.4, Issue 1, Jan-March 2013 (ISSN – 2229-4333).
<https://www.ijcst.com/archives/vol-4-issue-2-4/vol-4-issue-2-2/vol-4-issue-1-4/vol-4-issue-1-2/>
24. Paper published on “**Multimodality Video Representation**” in International Journal of Engineering Research & Technology (IJERT) Vol.1, Issue 5, July-2012 (ISSN – 2278-0181). <https://www.ijert.org/multimodality-video-representation>
25. Paper published on “**Web Search Engine**” in International Journal of Scientific & Engineering Research(IJSER) Volume 2, Issue 12, December-2011 (ISSN 2229-5518). <https://www.ijser.org/paper/Web-Search-Engine.html>

International Conferences: (7)

1. Presented a paper on “**Secure Pool Mining through SVM-Based Miner Classification and Computation Validation in Blockchain Networks**” was published by **IEEE Xplore** May 2025. **OITS International Conference on Information Technology (OCIT) DOI: 10.1109/OCIT65031.2024.00102**
2. Presented a paper on” **SAMS: Smart Agriculture Management System Using Emerging Technologies IoT, AI -A Study**” at **International Conference on Computer Vision, High Performance Computing, Smart Devices and Networks(CHSN-2020)** 28th - 29th December 2020 Organized by Department of CSE, **Jawaharlal Nehru Technological University Kakinada, Kakinada, AP.**
published in **SCOPUS Journal IOP Conference Series: Materials Science and Engineering.**
<http://dx.doi.org/10.1088/1757-899x/1074/1/012017>
<https://iopscience.iop.org/article/10.1088/1757-899X/1074/1/012017>
3. Presented a paper on “**Contemporary ways of Dairy Farming with Usage of Smart Wireless Systems**”, at **International Conference on Advances in Computing and Information Technology(ICACIT’19).**–24th-25th September 2019, **ISBN 978-81-942094-0-9**, proceeding page no: 120-131, Department of Computer Science and Engineering, Faculty of Engineering and Technology, Annamalai University, Annamalainagar- 608002, Tamilnadu, India.
4. Present a paper on “**Smart System to Detect the Maturity Level of Fruit Size Using IoT**” at International conference, Special Issue3, **CITAES-18**, Feb 2019 @ 2019 **IJASRM Gudlavaluru, AP (ISSN 2455-6378).**
<http://ijasrm.com/issues/special-issue-dec-2018/>
https://fd056a.n3cdn1.secureserver.net/wpcontent/uploads/2019/02/IJASRM_V4_S1_1162_26_29.pdf
5. Participated in the **4th International Conference on Big Data Analytics -2015** organized by Department of Computer Science and Engineering, NIT, Warangal, India during 15th – 18th December 2015.
6. **Present a paper on “ An Efficient Low Power & High Performance in MPSOC”** proceedings of International conference, **WCI’15**, Aug 10-15, 2015 Kochi, India @ 2015 **ACM (ISBN 978-1-4503-3361-0/....).** **SCOPUS Indexed.**

<https://doi.org/10.1145/2791405.2791551>
<https://www.scopus.com/authid/detail.uri?authorId=56470755800>
7. Present a paper on “**An Effective Approach for Discovering Relevent Semantic Associations Based On User Specified Relationships**” proceedings of International conference, **ERCICA 2013 @ 2013 ELSEVIER Jalandhar, Punjab (ISBN 9789351071020).** **SCOPUS Indexed.**

Books Publication:

- ❖ Published Book on **METHODOLOGIES FOR SOFTWARE TESTING** First Edition: April 2021, ISBN : 978-81-946383-3-9 , Publisher One Press Publishing, 133, First Floor, Walajah Road, Fazal Complex, Chennai – 600 005.

Book available for sale website:

<https://www.shanlax.com/product/methodologies-for-software-testing/>

https://books.google.co.in/books/about/Methodologies_for_Software_Testing.html?id=WkhgEAAAQBAJ&redir_esc=y

Book Chapter Pulication:

- ❖ Published a Book chapter on **Sailfish Optimizer Algorithm (SFO) for Optimized Clustering in Internet of Things (IoT) Related to the Healthcare Industry, on Modeling and Optimization of Optical Communication Networks** First published: 27 October 2023, Print ISBN:9781119839200 |Online ISBN:9781119839569, Publisher **WILEY Online Library**, © 2023 Scrivener Publishing LLC.

<https://doi.org/10.1002/9781119839569.ch19>

Patents:

1. The Commissioner of Patents has **granted** the "A Smart Medicine Dispenser with Efficient Monitoring System and Method Thereof" patent on October 2022 (Application No: 202241061747)
2. The Commissioner of Patents has published on “**LIGHTWEIGHT EFFICIENT SECURITY SCHEME FOR CLOUD DATA SECURITY**”, 13-May-2022 (**Patent number:** 202241023838).
3. The Commissioner of Patents has **granted** on “**A SYSTEM AND THE METHOD FOR EFFICIENT COMMUNICATION BETWEEN IOT DEVICES IN HETEROGENEOUS IOT ENVIRONMENT USING ML**”, 30 June 2021(**Patent number:** 2021102050).
4. The Commissioner of Patents has published on “**ENHANCEMENT OF QUALITY OF SERVICE IN WIRELESS SENSOR NETWORK BY REDUNDANT SENSORS CONTROLLING**”, 11-Dec-2020 (**Patent number:** 202041051968).

WORKSHOPS/ ATTENDED/CONDUCTED: (60)

1. Participated in **ONE WEEK** online workshop on " **Blockchain, Fintech and Cyber Security: Shaping the Future of Secure Digital Finance (BFC-25)** " organized by the Department of Computer Science & Engineering during 6th 16th January, 2025 at **National Institute of Technology(NIT) Raipur, India.**
2. Participated in **One day workshop & Certification course on "Python using AI "** organized by AI for Techies, 15-Dec-2024. .
3. Participated in **ONE WEEK** professional Development Programme on " **Trends in threat analysis of cyber attacks in Machine Learning**" organized by **Vardhaman College Of Engineering (Autonomous)** during 23-Oct-2024 to 28-Oct-2024, at **Hyderabad,TG.**
4. Participated in **TWO DAY** Faculty Development Programme on "**Empowering Engineers through Advanced AI and ML Technologies**" organized by **The Institution of Engineers (India)** in Association with Department of Computer Science & Engineering, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru from 18 Oct 2024 to 19 oct 2024.
5. **Three WEEK Wipro Certified Faculty Program** Certification of participating in the training program on "**Database Solutions Expert**" conducted by **TalentNext WIPRO** from **09-Sep-2024 to 27-Sep-2024.**
6. Participated in **ONE WEEK** Faculty Development Programme on " **NLP Unleashed: Cutting-Edge Methods and Applications**" organized by **Vardhaman College Of Engineering (Autonomous)** during 27-Aug-2024 to 31-Aug-2024, at **Hyderabad,TG.**
7. Participated in **Two day workshop & Certification course on "Business intelligence Using Power BI"** organized by SKILL Nation during 24-Aug-2024 to 25-Aug-2024.
8. Participated in **ONE WEEK** Certification of participation on "**Training on Unity Real Time 3D Fundamentals for Augmented Reality and Virtual Reality**" organized by SR Gudlavalleru Engineering College in association with ARK Infosolutions Pvt Ltd., during 18-March-2024 to 23-March-2024, at Gudlavalleru, Andra Pradesh.
9. Participated in **ONE WEEK** Faculty Development Programme on "**Arduino applications in Engineering**" organized by SR Gudlavalleru Engineering College during 11-March-2024 to 16-March-2024, at Gudlavalleru, Andra Pradesh.
10. Participated in **ONE WEEK** Faculty Development Programme on "**Chat GPT AI Tools**" organized by SR Gudlavalleru Engineering College in association with SmartBridge Educational services Pvt Ltd., during 06-November-2023 to 11-November-2023, at Gudlavalleru, Andra Pradesh.
11. Participated in a **Fifteen Day** Short Term Online Course on "**Emerging Research Trends in Computer Science and Engineering**" organized by JNTU Vijayanagaram

- in association with Directorate of Faculty Development Cell, during 26th June to 10th July-2023 at JNTU-GV, Vizianagaram, Andhra Pradesh.
12. Participated in **ONE WEEK** Faculty Development Programme on "**Mean Stack Technologies**" organized by SR Gudlavalleru Engineering College in association with Skill Desire Technologies PVT Ltd., during 06-March 2023 to 14 March 2023, at Gudlavalleru, Andhra Pradesh.
 13. Participated in **Two Day** Faculty Development Programme on "**Network Simulation with Netsim Software**" organized by Dept of ECE, SR Gudlavalleru Engineering College, during 13th Oct to 14th Oct-2022 at Gudlavalleru, Andhra Pradesh.
 14. Participated in the **ONE WEEK** Faculty Development Programme on "**FULL STACK APPLICATION DEVELOPMENT**" organized by Dept of IT, SR Gudlavalleru Engineering College, in Association with Brain O Vision Pvt Ltd during 15th June to 21th June-2022 at Gudlavalleru, Andhra Pradesh.
 15. Participated in the **Two day workshop** on "**Machine Learning: Concepts and Applications**" organized by R&D cell, SR Gudlavalleru Engineering College, during 30th June to 1st July-2022 at Gudlavalleru, Andhra Pradesh.
 16. Participated in one day Faculty Development Programme on "**Intellectual property Rights**" organized by IQAC cell, in association with ISTE, held at Gudlavalleru Engineering College, Andhra Pradesh on 26th March 2022.
 17. Participated & completed successfully **TWO WEEK FDP** on "**Python Programming**" jointly organized by Electronics and ICT Academies during July 26 – August 06, 2021 under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" of the Ministry of Electronics and Information Technology (MeitY), Government of India. The programme is recognized by AICTE/UGC. Programme organized by **IIT Kanpur, IIT Guwahati, MNIT Jaipur, NIT Patna, IIT Roorkee, NIT Warangal and PDPM IITDM Jabalpur.**
 18. Participated & completed successfully AICTE Training and Learning (ATAL) Academy the **five days** Online FDP on "**Internet of Things (IoT)**" held at Gudlavalleru Engineering College, Andhra Pradesh during 7th Dec to 11th of Dec 2020.
 19. Participated & completed successfully AICTE Training and Learning (ATAL) Academy the five days Online **FDP** on "**Internet of Things (IoT)**" held at Koneru Lakshmaiah Education Foundation, Andhra Pradesh during 14th Dec to 18th of Dec 2020.
 20. Participated webinar on "**Impact of COVID in Engineering Education & way forward**" 9th June 2020 organized by ISTE Chapter, Gudlavalleru Engg College, Gudlavalleru.
 21. Participated One week online FDP on "**OBE-NBA Process**" 15th -19th May 2020, organized by Internal Quality Assurance Cell (IQAC), NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS), NARASARAOPETA.
 22. Participated webinar on "**I Research Publications, Process, Credentials and Outcomes**" 09th May, 2020 organized by BABA INSTITUTE OF TECHNOLOGY & SCIENCES, Vishakapatnam.

23. Participated One week online workshop on “**Digital Image Processing using MATLAB**” 24th April – 27th April 2020 organized by Skill to Hire and Sunxa IT(P) Ltd.
24. Participated webinar on “**Robotic Process Automation: Basics and Beyond**” 10th April, 2020 organized by ICT Academy and SkyCampus.
25. Participated **One week** workshop on “**Machine learning and Deep Learning**” 1st May – 7th May 2019 organized by Dept of Computer Science & Engineering, Gudlavalleru Engg College, Gudlavalleru.
26. Participated **One week** workshop on “**Internet of Things with IBM Watson**” 26th Nov – 1st Dec 2018 organized by Dept of Information Technology, Gudlavalleru Engg College, Gudlavalleru.
27. Attended **Six weeks** program on “**Summer Faculty Research Fellow Program (SFRF)**” during 28th May 2018 to 28th June 2018 at **IIT, Delhi**.
28. Participated in One day workshop on “**Internet Architecture and its Recent Trends**” organized by Computer Science & Engineering Gudlavalleru Engineering College, Gudlavalleru on 28th Dec 2017.
29. Participated in **Two week** FDP on “**Simulation of Wireless Sensor Networks using NS2**” **Organized by Dept of ECE, Sreenidhi Institute of Science and Technology, Hyderabad during 20th November – 2nd December 2017.**
30. Participated in **one day** workshop on “**Empowering Teaching Excellence Through E-Learning Platforms**” **Organized by JNTUK, Kakinada on 8th July 2017.**
31. Participated in **one week** FDP on “**R-Programming**” **Organized by Dhanekula Institute of Engineering and Technology in Association with NIT Warangal, Vijayawada during 31st November – 5th December 2016.**
32. Participated in One Week workshop on “**Big Data Analytics**” organized by Computer Science & Engineering Gudlavalleru Engineering College, Gudlavalleru during 14th – 19th November 2016.
33. Participated in One day workshop on “**UAVs/DRONES-Technological Advances and Innovations**” organized by IEEE Hyderabad section and Industry Relations Committee, Hyderabad on 5th November 2016.
34. Participated in **Two day** workshop on “**Windows Azure**” organized by Computer Science & Engineering in association with Computer Society of India (CSI), Gudlavalleru Engineering College, Gudlavalleru during 21st – 22nd March 2016.
35. **Coordinator** for Three day Faculty Development Program on “**Big Data Analytics**” was organized by Department of Information Technology in association with Computer Society of India (CSI), at Gudlavalleru Engineering College, Gudlavalleru, during 25th -27th February 2016.
36. Participated in **four day IEEE 4th International Conference on Big data Analytics, 2015 (BDA-2015)**” organized by **Department of Computer Science**

- and Engineering, National Institute of Technology, Warangal** during 15- 18 December, 2015.
37. Participated in **Two day** workshop on “**Internet of Things**” organized by Computer Science & Engineering in association with Computer Society of India (CSI), Gudlavalleru Engineering College, Gudlavalleru during 27th – 28th November 2015.
 38. Participated in **Two Day** workshop on “**Ethical Hacking**” organized by Department of Information Technology, Gudlavalleru Engineering College, JNTU, Kakinada from 6th to 7th October 2015.
 39. **Coordinator** for **Two week ISTE STTP** on “**Introduction to Design of Algorithms**” conducted by **Indian Institute of Technology, Kharagpur** from 25th to 30th May 2015.
 40. Participated in **one week ISTE STTP** for Coordinators on “**Introduction to Design of Algorithms**” conducted by **Indian Institute of Technology, Kharagpur** from 16th to 20th March 2015.
 41. **Coordinator** for Two day Faculty Development Program on “**Research challenges in BIGDATA and HADOOP framework**” was organized in association with Computer Society of India (CSI) from 12th to 13th March 2015.
 42. Participated in **one week** National workshop on “**Research challenges and Issues in Big data and Cloud computing**” organized by Department of Computer Science & Engineering, **University College of Engineering Vizianagaram, JNTU, Kakinada** from 27th to 31st January 2015.
 43. Participated a **Three workshop on Android** from 25th - 27th July 2014 organized by Department of Information Technology, Gudlavalleru Engineering College, Gudlavalleru.
 44. Attended a **Two week ISTE Main workshop** on “**Cyber security**” from 10th - 20th July 2014 conducted by **IIT, Bombay** at Gudlavalleru Engineering College, Gudlavalleru.
 45. Participated in **Two week ISTE workshop** on **Computer Networks** conducted by **IIT, Bombay** at Gudlavalleru Engineering College, during 30 June - 5 July 2014.
 46. Participated in **Two week ISTE workshop** on **Computer Programming** conducted by **IIT, Bombay** at Gudlavalleru Engineering College, during 16- 21 June 2014.
 47. Attended Two day Faculty design workshop of the TEP at **ISB, Hyderabad** from 28th-29th March, 2014.
 48. Participated in one day faculty development workshop on “**Cyber Security in Association with Virscent Technology Private Limited, an IIT Kharagpur Alumnus**” at **Gudlavalleru Engineering College** , on 15th July 2013..

49. Participated in Two day National level workshop on “ **Recent Research Trends in Computer Science and Information Technology** ” on 21st & 22nd June, 2013 Conducted by **University College of Engineering Vijayanagaram, JNTUK, Vijayanagaram.**
50. Participated in **Two week ISTE** workshop on “**Database Management System**” on 21st to 31st May, 2013 Conducted by **IIT Bombay, MHRD.**
51. Participated one week workshop on “**Training Teachers for Excellence** ” on 29th April to 4th May, 2013 Organized by Gudlavalleru Engineering College ,Gudlavalleru. Conducted by **Dr. B.G.Barki, Former Director, NITTTR, Chennai.**
52. Participated in Instructional **Design** workshop on “ **E-content Development** ” on 21st & 22nd Feb, 2013 Conducted by **BRITISH Council, IIIT Hyd, VNR VJIET Hyd.**
53. **Coordinator** for Inter Dept Technical Paper contest **TECHNOSPARK** at **GUDLAVALLERU ENGINEERING COLLEGE, Gudlavalleru** on 16th Feb 2013.
54. Participated in Two day **ISTE** workshop on “**Research Methodologies**” on 2nd & 9th Feb, 2013 Conducted by **IIT Bombay, MHRD.**
55. Participated in Two day **ISTE** workshop on “**Akash for Education**” on 10th & 11th November, 2012 Conducted by **IIT Bombay, MHRD.**
56. Participated in Two days workshop on “**Recent Developments in Cloud Computing**” on 17th to 18th Aug 2012 organized by Department of Information Technology ISTE chapter of Gudlavalleru Engineering College.
57. Successfully Completed the *CIT Teacher Training Program (TTP)* with **Mastery** at **IIIT-H** during Summer of 2012.
58. **Coordinator** for Technical Staff development program on “**Latest Trends in Hardware and Network management & Software packages**” at **GUDLAVALLERU ENGINEERING COLLEGE, Gudlavalleru** during 6th - 7th July 2012.
59. **Coordinator** for Inter Department Technical Paper contest **TECHSTROM** at **GUDLAVALLERU ENGINEERING COLLEGE, Gudlavalleru.**
60. Participated in the faculty updation training on “ **Enterprise Solutions For Web Applications**” organized by C-DAC,Hyderabad in collaboration with JNTU, Hyd as a part of **ADVANCED FACULTY TRAINING** project ,**HRD division, Department of Information Technology, Government of India C-DAC** for period of 2 weeks starting from 02/01/2012 to 13/01/2012.
61. Participated in One day workshop on **Cloud Computing And It’s Applications** on 12th feb 2011 organized by ISTE chapter of Pragathi Engineering College.

62. Participated in two days faculty development program on “**MODELING AND TEXTURE MAPPING using MAYA**” at **Gudlavalleru Engineering College** , during 3rd and 4th December 2010.
63. Three Days National Level Workshop On **Recent Trends in Image and Computer Vision Research** at Aditya Institute Of Technology & Management, Tekkali Oct 2010.
64. Participated in **Infosys Compus Connect Program(TTTP)** on “**Infrastructure Management Services**” , held at **Infosys Technologies Ltd.** , Hyderabad , 6th to 8th Aug 2008.

GUEST LECTURES:

- ❖ Given a **guest lecture on Database Management System** for III year students of C.S.E at ASR Engineering College, **Tanuku** 2006.
- ❖ Given a **guest lecture on Computer Graphics** for III Year students of C.S.I.T at ASR Engineering College, **Tanuku** 2006.
- ❖ Given Lectures on **ORACLE 9i** (ORACLE Corporation Syllabus) for students of C.S.E and IT at **SSIET, Nuzvid**, 2008.
- ❖ Given Lectures on **Campus Connecting Program(conducted by Infosys)** Subjects(DBMS,DAA) for students of C.S.E and IT at **SSIET, Nuzvid**, 2008.
- ❖ Given a **guest lecture on Database Management System** for all faculty of I.T, at Gudlavalleru Engineering College, Gudlavalleru, 2012.
- ❖ Given Lectures on **Campus Connecting Program(conducted by Infosys)** Subject(DBMS) for students of C.S.E and IT at Gudlavalleru Engineering College, Gudlavalleru, 2012.
- ❖ Given a **guest lecture on Database Management System** for II year students of I.T, at Gudlavalleru Engineering College, Gudlavalleru, 26th Dec 2012.
- ❖ Delivered a Guest Lecture on **Concepts of Database Design** for students of DVR & DHS MIC college of Technology, Kanchikacherla on 17th October 2013.
- ❖ Delivered a Guest Lecture on **Big Data Analytics** for students of DVR & DHS MIC college of Technology, Kanchikacherla on 26th July 2014.
- ❖ Given a Lecture on **Campus Connecting Program(conducted by Infosys)** Subject(DBMS) for students of ECE at Gudlavalleru Engineering College, Gudlavalleru, April, 2015.
- ❖ Given a Guest Lecture on **Advanced Database concepts** for students of CSE at Lakireddy Balreddy Engineering College, Mylavaram on 5th December 2015.
- ❖ Given a Guest Lecture on **OUTCOME BASED EDUCATION** for the **faculty** of Gudlavalleru Engineering College, Gudlavalleru on 8th December 2018.
- ❖ Given **Personality Development classes** for the Newly entry students (1st year B.Tech.), **Induction program** of SR Gudlavalleru Engineering College, Gudlavalleru from 2020 to 2024.
- ❖ Given a Guest Lecture on **OUTCOME BASED EDUCATION** for the **faculty** of Gudlavalleru Engineering College, Gudlavalleru on 18th Feb 2025.