

S Kumar Reddy Mallidi

Assistant Professor

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An assistant professor with 9 years of experience in industry and in teaching at undergraduate and postgraduate levels. A researcher working in but not constrained to the areas of machine learning and network security.

EXPERIENCE

Working as an Assistant Professor in Computer Science and Engineering at Sri Vasavi Engineering College since 1st November 2019.

Worked as an Assistant Professor in Computer Science and Engineering at Godavari Institute of Engineering & Technology from 17th May 2018 to 30th October 2019.

Worked as an Assistant Professor in Computer Science and Engineering at Vignans' Lara Institute of Technology & Science from 10th March 2016 to 12th May 2018.

EDUCATION

PH.D., JNTUK (PURSUING)

Pursuing Ph.D. from September 2020 and working on "Applied Soft Computing and Machine Learning in Network Security."

M.TECH., MVGRCE, 2015

Completed Masters's in the department of CSE with a specialization in Computer Networks and Information Security. I also acquired the global certifications **CCNA** and **CEH** during the same.

B.TECH., BEC, 2013

Completed Bachelor's degree in the department of ECE and also qualified for GATE-2015 in ECE.

ACADEMIC ACHIEVEMENTS AND PROFESSIONAL DEVELOPMENT

Qualified UGC-NET 2019 for Assistant Professor.

Qualified GATE-DA 2024 with a score of 473.

Qualified GATE-CS 2018 with a score of 582.

No. of Journal Publications : 12

No. of Conference Publications : 7

No. of NPTEL Domain Scholar Certifications : 2

No. of NPTEL Certificates : 17

No. of Faculty Development Programs Attended : 16

No. of Training Programs Attended : 5

Ratified twice as an Assistant Professor of Computer Science and Engineering under JNTUK.

Completed Pre-Ph.D. and two RRM's.

Microsoft Certifications :2 (AI Fundamentals & AI Engineer)

JOURNAL PUBLICATIONS

- "A multi-level intrusion detection system for industrial IoT using bowerbird courtship-inspired feature selection and hybrid data balancing" in Discover Computing in June 2025.
- "Optimizing Intrusion Detection for IoT: A Systematic Review of Machine Learning and Deep Learning Approaches With Feature Selection and Data Balancing" in WIREs: Data Mining and Knowledge Discovery in Mar 2025. (SCIE)
- "Embedded-filter ACO using clustering based mutual information for feature selection" in Journal of Combinatorial Optimization in Feb 2025. (SCIE)
- "Bowerbird courtship-inspired feature selection for efficient high-dimensional data analysis using a novel meta-heuristic" in Discover Computing in Jan 2025. (SCIE)
- "Advancements in training and deployment strategies for AI-based intrusion detection systems in IoT: a systematic literature review" in Discover Internet of Things in Jan 2025. (SCOPUS)
- "A Wrapper Based Feature Selection Using Grey Wolf Optimization for Botnet Attack Detection" in International Journal of Sensors, Wireless Communications and Control in Nov 2021. (SCOPUS)
- "Bat optimization algorithm for wrapper-based feature selection and performance improvement of android malware detection" in IET Networks in May 2021. (SCOPUS)
- "Feature Reduction and Optimization of Malware Detection System Using Ant Colony Optimization and Rough Sets" in International Journal of Information Security and Privacy in Jul 2020. (SCOPUS)
- "Image Encryption for Secure Network Transfer" in the Journal of Emerging Technologies and Innovative Research in Apr 2019.
- "IoT-based Smart Agriculture Monitoring Framework with Automation" in I-Manager's Journal of Embedded Systems in May 2018.
- "IoT-based Smart Vehicle Monitoring System" in IJARCS in Mar 2018.
- "A Comprehensive Analysis of Smartphone Forensics & Data Acquisitions" in IJARCSSE in Feb 2016.

CONFERENCE PUBLICATIONS

- "Deep Learning in Cartoon Moderation: Distinguishing Child-Friendly Content with CNN Architectures" in Cognitive Computing and Cyber Physical Systems in Feb 2025. (SCOPUS)
- "Improving Pneumonia Diagnosis via Deep Learning: A Comprehensive Approach Incorporating CNN Classification" in Cognitive Computing and Cyber Physical Systems in Feb 2025. (SCOPUS)
- "A Detailed Investigation of Deep Learning and Machine Learning Approaches for Sugarcane Foliage Disorder Identification" in 5th International Conference on Smart Electronics and Communication (ICOSEC), 2024. (IEEE)
- "Efficient Feature Selection for IoT Security: A Comparative Analysis of Swarm Optimization Algorithms in Attack Detection" in Innovative Computing and Communications in Oct 2024. (SCOPUS)
- "Advancements in Deep Learning for the Precise Detection of Diseases in Potato Leaves" in AI Technologies for Information Systems and Management Science in Oct 2024. (SCOPUS)
- "Detecting Diseases in Potato Leaves using Deep Learning and Machine Learning Approaches: A Review" in the International Conference on Smart Electronics and Communication (ICOSEC) in 2023. (IEEE)

- "Prediction of COVID-19 Victim's Well-being using eXtreme Gradient Boost Algorithm" in 2nd International Conference on Edge Computing and Applications (ICECAA) in 2023. (IEEE)

NPTEL CERTIFICATIONS

- **Awarded NPTEL domain certificate in Data Science in Apr 2024.**
- **Awarded NPTEL domain certificate in Programming in Apr 2021.**
- An Introduction to Artificial Intelligence in Jan-Apr 2024.
- Deep Learning – IIT Ropar in Jan-Apr 2024.
- Learning Analytics Tools in Jul-Oct 2023.
- Data Science For Engineers in Jul-Sep 2023.
- Introduction to Machine Learning in Jan-Apr 2023.
- Python for Data Science in Jan-Feb 2023.
- An Introduction to Programming through C++ in Jan-Apr 2021.
- Deep Learning – IITKGP in Jan-Apr 2021.
- Practical Machine Learning with Tensorflow in Sep-Nov 2020.
- Programming in Java in Sep-Dec 2020.
- Data Base Management System in Sep-Nov 2020.
- Machine Learning, ML in Feb-Apr 2020.
- Data Analytics with Python in Jan-Apr 2020.
- Computer Networks and Internet Protocol in Jan-Apr 2020.
- Introduction to Internet of Things in Jul-Oct 2018.
- Programming, Data Structures and Algorithms using Python in Aug-Sep 2018.