



SHEEBA PRAVEEN

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GOOGLE SCHOLAR: <https://scholar.google.com/citations?hl=en&user=33oCXhcAAAAJ->

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Web of Science ResearcherID : IDJUF-8107-2023

Citation: 73, Google Scholar: h-index: 5, i10-index: 2

Profile

Associate Professor with a remarkable **14+ years** of teaching & research in Computer Science & Engineering. My accomplishments include authoring textbooks and book chapters, holding grants of international and national patents, and contributing to several reputable journals such as SCI and Scopus. I have shared my research at international conferences and actively contributed to organizing national and international events, spanning conferences, seminars, webinars, STC and FDPs. My interests center on Software Engineering & Project Management, Object-Oriented Methodology, and cutting-edge domains like Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, and XAI etc.

QUALIFICATION	<ul style="list-style-type: none">- PhD: Babu Banarsi Das University, Lucknow, India, 2021 – Software Engineering and Project Management- M.Tech: Integral university, Lucknow, 2013, 82% (Honors)- B.Tech: Integral university, Lucknow, 2001, 73%- Additional Certifications in Deep Learning, Machine Learning, Blockchain etc
TEACHING/ RESEARCH/ ESTABLISHMENT EXPERIENCE	Total Experience: 14 Years (UG: 23 Years, PG: 19 Years, Post-Doctoral: 6 Years 10 Months)
PUBLICATIONS	<ul style="list-style-type: none">- Journal Papers: 22 (Published in SCI/WoS/Scopus and UGC CARE-listed journals)- Conference Papers: 06
	Book:02
	- Book Chapters: 05

	-Patents : 07
	-Research Projects: 01
RESEARCH GUIDED	a) Ph.D. : Awarded : Ongoing – 05. b) M.Tech : Awarded – 03
WORKSHOP/ QIP/ FDP/ SHORT COURSES	Attended : 60+ Conducted: 35+ Keynote and Resource Person: 04
ACHIEVEMENTS/ RECOGNITIONS AT THE NATIONAL/ INTERNATIONAL LEVEL	1. Nodal Center Coordinator NITTTR, Chandigarh, MHRD, Govt of India, 2. Program Officer, NSS, Lucknow University, State Govt. of India.
REVIEWER	Actively reviewing for international journals and conferences including IEEE, ICBNA, ADSC, and ICHCSC, UPCON,IJDR
PROFESSIONAL MEMBERSHIPS	-IEEE -Computer Society of India (Life Member) - International Association of Engineers (IAENG)

Research Interests

The research interests include blockchain and IoT for security and sustainability, AI/ML in healthcare and finance, biometric identification, cloud security, autonomous systems, sustainable agriculture, and software engineering metrics.

Summary of Research Accomplishment

1. Biometric Identification Using Facial Vein Patterns

Gautam, R., & Praveen, S. (2024)

This study introduces a novel approach to biometric identification using unique facial vein patterns, which enhances security and accuracy in identity verification.

2. Forecasting Stock Market Movements through Sentiment Analysis and Deep Learning

Kumar S., & Praveen, S. (2024)

An analysis of predictive models combining sentiment analysis and deep learning to forecast stock market trends, improving investment decision-making accuracy.

3. SAHMT's Non-Invasive Healthcare Model for Zoo Animals

Praveen, S., et al. (2024)

Describes the Smart Animal Healthcare Monitoring Tunnel (SAHMT), an IoT

- and deep learning-based model for the non-invasive health monitoring of zoo animals, enhancing welfare and disease prevention.
4. **Secure Authentication in Cloud Computing**
Fatima, U., & Parveen, S. (2023)
Explores robust key management protocols for secure cloud authentication, addressing privacy and security concerns.
 5. **Authentication Protocols in Cloud Computing**
Fatima, U., & Parveen, S. (2023)
A review of various authentication protocols, highlighting challenges and advancements for secure cloud computing environments.
 6. **Optimizing Biomedical Imaging for Cancer Detection Using PSO**
Praveen, S., et al. (2022)
Utilizes Particle Swarm Optimization (PSO) for enhancing biomedical imaging, specifically targeting head and neck cancer detection.
 7. **Human-Computer Interaction with sEMG Signals**
Kapil, Praveen, S., et al. (2022)
Investigates intelligent interaction techniques using surface electromyography (sEMG) for upper limb movement, advancing rehabilitation technology.
 8. **Privacy and Data Security in Cloud Storage**
Akhtar, N., & Praveen, S. (2021)
A comprehensive overview of security issues in cloud storage, suggesting approaches for maintaining data privacy and security.
 9. **Sentiment Classification with Multi-Feature Selection**
Sandhu, N.S., & Praveen, S. (2021)
Examines a classification model that enhances sentiment analysis by selecting multiple features, improving text-based sentiment accuracy.
 10. **CT Scan Image Classification for COVID-19 Detection**
Modi, S., et al. (2021)
Proposes a capsule network-based model for classifying COVID-19 in CT scans, enabling detailed and accurate disease detection.
 11. **Automatic Driving Systems Using Digital Image Processing**
Alam, A., & Praveen, S. (2021)
Reviews methods for automatic vehicle navigation and road sign recognition, supporting advancements in autonomous driving systems.
 12. **Software Development Metrics, Security, and Functionality Research**
Various studies by Praveen, S. from 2012-2018
Covering metrics for project size estimation, function point analysis, and security in big data environments, contributing foundational knowledge to software engineering.

Conference Presentations and Patents

1. **Blockchain and Sustainable Agriculture**
Discusses blockchain integration in agricultural weed management, promoting sustainability.
2. **Explainable AI (XAI) in Healthcare**
Explores how explainable AI improves trust in healthcare decisions.
3. **IoT and Deep Learning for Non-Invasive Zoo Animal Care**
Patent and conference presentations on SAHMT, focusing on non-invasive zoo animal healthcare.

4. **Advanced Security and Cryptography Patents**
Patents covering secure key-sharing frameworks using asymmetric cryptography and blockchain, as well as machine learning models for medical imaging.

Ongoing Research Projects

1. **Blockchain-Based Framework for Detecting Duplicate Research Papers**
Researcher: Faisal Farooqui
Date of Registration: September 29, 2023
Developing a blockchain-based system to identify duplicate research papers, enhancing integrity in academic publications.
2. **Brain Tumor Detection in Children Using CNN**
Researcher: Sandeep Kumar Mishra
Date of Registration: September 29, 2023
Focuses on detecting pediatric brain tumors from MRI images using Convolutional Neural Networks (CNN), aiding early diagnosis.
3. **Ethical Framework and Practical Guidelines for AI and Data Use in Computer Science**
Researcher: Sadaf Janhan
Date of Registration: September 29, 2023
Establishing an ethical framework for AI and data usage, addressing privacy and accountability in computer science.
4. **Stock Market Price Prediction Using Deep Learning and Sentiment Analysis**
Researcher: Mr. Satish Kumar Singh
Date of Registration: September 23, 2021
Investigates the influence of sentiment analysis and big data on predicting stock market behavior using deep learning techniques.
5. **Reliable Data Dissemination in VANET Using Machine Learning**
Researchers: Ms. Nazish Siddiqui & Ms. Umaima Fatima
Registration Dates: September 25, 2021 (Siddiqui), September 26, 2022 (Fatima)
Studies robust data dissemination in Vehicular Ad-Hoc Networks (VANET) through machine learning approaches.

Thesis Submissions

1. **Vein-Based Biometric Systems for Personal Identification**
Researcher: Ms. Reshma Gautam
Thesis Submitted: July 2024
Proposes a personal identification system based on vein patterns, enhancing security and identification accuracy.
2. **Automatic Driving System by Recognizing Road Signs Using Digital Image Processing**
Researcher: Mr. Afroj Alam
Thesis Submitted: August 2021
Aims to improve autonomous driving by recognizing road signs via digital image processing.

Funded Project

1. **GreenTech for Hydroponic Farming with Waste Water Management**

Project: Harvesting Sustainability

Seed Grant: ICEIR 2023, Integral University

Implements sustainable hydroponic farming methods, integrating wastewater management to advance eco-friendly agricultural practices.

Book published

1. **Machine Learning with Text Using Python**

Publisher: Book Rivers, 2021

ISBN: 978-93-5515-206-0

A textbook focused on text-based machine learning applications in Python.

2. **A Textbook of Agri-Informatics**

Publisher: Kalyani, 2022

ISBN: 978-93-5540-479-4

Covers the intersection of agriculture and informatics, detailing technology's role in modern agricultural practices.

Courses Taught

-PhD : Software Engineering and Cloud Computing

-M.Tech: Advance Statistical Techniques for Data Analytics, Software Testing and Quality Management, Software engineering Project Management, and Data Science

-B.Tech: Object oriented methodology, Software engineering Project Management, Microprocessor and its applications, DAA, AI, Graph Theory, Operating System