

Name of Faculty Dr. Shobarani Salvadi
 Designation Assistant Professor
 Nature of Job/Appointment Regular
 Date of Joining 07-03-2022
 E-mail shobarani_aids@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (CSE) JNTUH, Hyderabad	Awarded
PG	M.Tech. (SE)	First with Distinction
UG	B.Tech (CSE)	First

Work Experience

Teaching	19 Years
Research	08 years
Industry	--
Others	--
Area of Specialization	Artificial intelligence, Machine Learning and Neural Networks.

Professional Memberships	ISTE - LM124248
Responsibilities held at Institution Level	ARIIA Member
Responsibilities held at Department Level	Department Placement Coordinator
Research Guidance	-

Awards Received	<ul style="list-style-type: none"> Innovation Ambassador (IA) training from IIC & AICTE. Received Elite Silver Certificate for the NPTEL online Course "The Joy of Computing using Python" from IIT Madras, Jan-Apr 2021. Certified AWS Academy Cloud Foundation course from AWS Academy. Certified Google Cloud Facilitator from Google Cloud and Public profile is https://www.qwiklabs.com/public_profiles/f00d8b17-fe34-4004-a224-21b5ced11212. Received Mentor Certificate for the NPTEL online Course "Artificial Intelligence: Knowledge Representation and Reasoning" from IIT Madras, Jan-Apr 2016. Received IUCEE International Engineering Educator Certificate from IUCEE, in May 2016. Program Duration
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is from Dec 9th 2015 to May 20th 2016.

Courses Handled at Under Graduate / Post Graduate Level.

UG Level: Problem Solving and Programming with Python, Data Structures, Design and Analysis of Algorithms Fundamentals of Machine Learning, Machine Learning, Artificial Intelligence, Artificial Neural Networks, Discrete Mathematical Structures, Software project management, Operating Systems, Computer Organization and Architecture, Information Security, Database Management Systems, Software Testing Methodologies, Design Patterns.

PG Level: Artificial Intelligence, Machine Learning, Social Network Analytics, Computer Organization, Advanced Algorithms.

No. of Papers Published

National Journals – 05

International Journals – 10

National Conference – 03

International Conference – 5

Projects Carried out

National: 01 (Published-01)

IPRs: 03

Patent Details:

Patents

1. Student mood prediction in the digital classrooms using facial expression 201941018492 a.
2. Patent is published with title “Healthcare and Fitness Data Management using AI Blockchain Platform”, Application number: 202241064068, Published on 25-11-2022 (National Patent: INDIA).
3. Patent is published with title “Blockchain- Enabled SecurityArchitecture for IoT and Cloud Applications”, Application Number:202441097868 A, Published on 20/12/2024(National Patent: INDIA)

Technology Transfer

Delivered a session in FDP in 2023, IT Department

Invited Speaker

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Published one book chapter Evolution and Applications of Quantum Computing: Deep Learning-Based Quantum System for Human Activity Recognition” May, 2023, Wiley publication.[Scopus]

No. of Books/Chapter Published with details

Published one book chapter A Robot-Assisted Surgical Procedure using DTC based Convolutional Neural Network Model, (<https://link.springer.com/book/9789819737048>) in 2024 [Springer]

Published one book chapter: “Privacy Preserving One Time Decryption Method for Distributed Environment. In Cybernetics, Human Cognition, and Machine Learning in Communicative Applications. Cognitive Science and Technology book series Springer, Singapore, 2025. [Springer]

Published one book chapter: “Enhancing Precision Agriculture

with Machine Learning and Image Processing: A Comparative Evaluation of YOLO and RCNN for Weed Identification and Detection”. In Cybernetics, Human Cognition, and Machine Learning in Communicative Applications. Cognitive Science and Technology book series. Springer, Singapore, 2025. **[Springer]**

- Participated a One-week FDP on “Machine Learning and its Applications” 28th March to 1st April 2022, CVR College.
- Participated a One-week FDP on “Deep Learning Approaches for 5G and Software Defined Networks” during 4th April to 8th April 2022, ICFAI University.
- Attended two days session on “Amazon Web Services” 22nd Aug to 27th Aug 2022, organized by GMRIT in collaboration with BRAINO VISION.
- Attended a One-week FDP on “Open-Source Technologies” from 17th October to 21th October 2022, by NITTR Chandigarh.
- Attended session on “Designing Course Outcomes and Outcomes-focused questions, Nov 4, 2022, Inpods.
- Participated a One-week FDP on “Advanced Problem-Solving using Machine Learning and Deep Learning”, 25th to 30th April, 2022, INSTITUTE OF AERONAUTICAL ENGINEERING.
- Participated in a Two Week Faculty Development Programme entitled “A Blend of Machine Vision, Cyber Security, Block Chain & Applications”, from August 5th to August 18th 2021 through online pedagogy from SATHYABAMA University.
- Participated & completed two-week AICTE Faculty Development Programme on “Robotics & Automation” from 16th to 30th June, 2021, at Jamia Millia Islamia (A Central University), New Delhi.
- Participated in a One week FDP on “AI & Deep Learning” at 360 Digi TMG, India during 17th Aug 2020 to 28th Aug 2020.
- Participated in a One week FDP on “Fascinating Python Application in Real-World and NVMe Storage Introduction” in SRM University during 6th July to 10th July 2020.
- Participated in a Two – Days National Symposium on “Deep Learning For Engineering Applications (DEA-2019)” at National Institute of Technology, Warangal during 25th-26th Feb, 2019.
- Participated in a One week FDP on “CYBER OPERATIONS” at Vardhaman College of Engineering, Hyderabad during Jan 28th ,2018 to Feb 02nd ,2019.
- Attended a one week Faculty Development Program On “Data Science Technologies & Next Generation Artificial Intelligence” at Muffakham Jah College of Engineering and Technology during 03rd -08th Jan 2019.
- Participated in a One week FDP on “Artificial Intelligence and Machine Learning” conducted by the E & ICT Academy, National Institute of Technology, Warangal at Vardhaman College of Engineering, Hyderabad during 5th-10th Feb, 2019.
- Participated in 5 Days Faculty Development Program on “DATA SCIENCE AND BIG DATA ANALYTICS” conducted by ICT Academy from 05- 09 Dec 2017 at Vardhaman College of Engineering, Hyderabad.

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Training (Attended and/or Organized).

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- Participated in a one week Faculty Development Program on “Internet of Things and Smart Applications” conducted by CVR College Of Engineering, during 27th Nov-1st Dec 2017.
- Participated in the Two day Workshop on “Outcomes-based Education (OBE) “conducted on 5th & 6th May, 2017 at Vardhaman College Of Engineering, Hyderabad.
- Attended “FOURTH INTERNATIONAL CONFERENCE ON TRANSFORMATION IN ENGINEERING EDUCATION” held during January 6-8, 2017 at Vardhaman College of Engineering, Hyderabad, India.
- Participated in a One week Faculty Development Program On “RESEARCH TRENDS IN COMPUTER SCIENCE ENGINEERING” Organized by Department of Information Technology and Computer Science & Engineering at Vardhaman College Of Engineering, Hyderabad during 5th - 11th January, 2015.
- Participated in a One week FDP on “Lecture Series on Computer Science Core Concepts” at Vardhaman College of Engineering, Hyderabad during 19th -25th November, 2014.
- Attended a One day seminar on “Multimedia Data Retrieval” at Vardhaman College of Engineering, Hyderabad on 11th November 2014.
- Attended ISTE workshop on DATABASE MANAGEMENT SYSTEM conducted by IIT Bombay and sciences Turbomachinery Institute of Technology.
- Participated in a Workshop on ANDRIOD TECHNOLOGY conducted in P. Indra Reddy Engineering College.

Details of Journal Publications/
Conferences (National and International)

- Published a paper titled “**Third Party Auditing for Secure Cloud Storage**” in International Journal of Research in Computer Sciences and Engineering (IJRCSE), IJRCSE/ April-2015 / Vol-5/ Issue-2/2517-2522, ISSN 2321-5585.
- Published a paper titled “**A novel approach on memory less BFGS neural network training algorithm**” in International Organization of Scientific Research Journal of Computer Engineering (IOSR-JCE), Vol 18, Issue 6th, Nov 2016.
- Published a paper titled “**A Survey on Internet of Things - Fog Secure Data in Processing Health Services**” in International Journal of Engineering & Technology Science and Research, Vol 4, Issue 11, Nov 2017.
- Published a paper titled “**Review on Neural Networks Associative Memory Models**” in international conference on Artificial Intelligence & Cognitive Computing (AICC-2018).
- Published a paper titled “**Travel data sequence from multi-source Recommendation System**” in International Journal of Engineering & Technology Science and Research, Nov 2018.
- Published a paper titled “**A Study on Techniques of facial recognition and IOT Cam vulnerabilities: A survey**”, in International Journal of Engineering & Technology Science and Research, Nov 2018.
- Published a paper titled “**Bidirectional Octonion Long-Short Term Recurrent Neural Networks for Speech Recognition**” European, Asian, Middle Eastern, North African Conference on Management & Information Systems EAMMIS 2021- Artificial Intelligence Systems and the Internet of Things pp 57-64.
- Published a Paper titled “**AutoAssociative Memory for Face Recognition using High-Dimensional Octonion Data**” in IOP Conference Series: Materials Science and Engineering 1042 012028 in 2021.
- Published a Paper titled “**An Integrated Approach Towards Stock Price Prediction using LSTM Algorithm**” 2022 International Conference on Edge Computing and Applications (ICECAA), Tamilnadu, India, 2022, pp. 1696-1699, doi: 10.1109/ICECAA55415.2022.9936082.

- Published a Paper titled “**Melanoma Cancer Detection using Quaternion Valued Neural Network**” 14th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2022) 28th March 2023.
- Published a Paper titled “**Medical image classification using DL-based Feature Extraction in IoMT**” in Bentham Science 31 March, 2023.
- Published a Paper titled “**Visual Mapping for Gender Identification from Facial Images using BAM and DON**” in Indian Journal of Science and Technology in 2023.
- Published a Paper titled “**Optimization of facial images to predict Gender using HDSON and Bidirectional Associative Memory**” in Indian Journal of Science and Technology in 2023.
- Published a Paper titled “**Virtual Glamour: AI-Enhanced Makeup Recommendations and Trials**” in Second International Conference on Inventive Computing and Informatics in 2024.
- Published a Paper titled “**Predictive Analytics in Mental Health: A Machine Learning Approach to Assessing Depression Severity**”, in Journal of Information Systems Engineering and Management, in 2025.

