Narendra Babu Pamula

CONTACT

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PROFILE

I am a caring and motivated lecturer with 17 years of classroom experience with strong multitasking ability, recognized for excellent communication skills and ability to manage and enthusiastically engage classes of 120+ students. "To make the best use of my technical expertise in logic development & data analysis in a research-based career; hence to acquire and apply advanced knowledge in particular field, Computer Science and Engineering".

EDUCATION

S.#	Qualification	Institute/University	Year of Passing	Class
1	**PhD** (Computer Science and Engineering)	**Central University of Mizoram,** AIZWAL: MIZORAM	2025	—
2	**M.Tech** (Computer Science and Engineering)	**JNTUK**	2012	First Class
3	**B. Tech** (Computer Science and Engineering)	Velagapudi Ramakrishna Siddhartha Engineering College**(VRSEC),**	2007	First Classwith distinction

EXPERIENCE

TOTAL EXPERIENCE: **17 Years**

S.#	Period		Designation	Name of Organization	Experience
	From	To			
1	Jan 2026	Till date	Associate Professor	Lakireddy Bali Reddy College of Engineering (LBRCE)	0.2 Years
2	May 2023	Dec 2025	Sr. Asst. Professor	Lakireddy Bali Reddy College of Engineering (LBRCE)	2.5 Years
3	May 2015	Apr 2023	Associate Professor	NRI Institute of Technology, Agiripalli.	8 years
4	April 2011	May 2015	Assistant Professor	VKR, VNB & AGK College ofEngineering, Gudivada.	4 Years
5	May 2009	May 2010	Assistant Professor	Rao & Naidu Engineering College, Ongole.	1 Year
6	May 2007	April 2009	Assistant Professor	Gudlavalleru Engineering College **(GEC)**, Gudlavalleru.	2 Years

PhD Thesis Title: "Development of Efficient Protocols in Federated Learning Framework for Secure Communication "

Area Working in: Security and Privacy in Federated Learning

FUNDED PROJECTS SANCTIONED AND APPLIED

S. No	SCHEME	TITLE	AMOUNT	STATUS
1	ICSSR-RMM-2024-5105	Design and development of a Low-Cost Smart Wearable Exoskeleton Suite for patient Motion Attention for paralyzed patients and rehabilitation through Deep Learning	23.9 L	APPLIED

2	**DST -SEED - TIDE**	**MULTI UTILITY WHEELCHAIR FOR CRAWLING PEOPLE TPN/100267**	**39.34 L**	APPLIED
3	**MeitY**	**SMART CITY MANAGEMENT THROUGH FEDERATED LEARNING**	**39.9 L**	APPLIED
4	**LBRCE/R&D/2023- 24/SEED/03**	**SMART CITY SENSING THROUGH FEDERATED LEARNING**	**93 K**	**SANCTIONED (Completed)**
5	**AICTE-VAANI- 2023**	**2-DAY WORK SHOP ON GREEN AND SUSTAINABLE SOFTWARE**	**2.0 L**	APPLIED
6	**AICTE-VAANI- 2023**	**2-DAY WORK SHOP ON HIGH PERFORMANCE COMPUTING AND AI FUSION**	**2.0 L**	APPLIED

PUBLICATIONS

S. #	Title	Name of Journal	Year of publication	ISSN #
1	Multinetguard: A Deep Learning Framework for Real-Time Multimodal Cyberbullying Detection In social media Using BILSTM and CNN	**International Journal of Environmental Sciences** https://doi.org/10.64252/xzq5mn06	**2025 Scopus** Waiting for Indexed	2229-7359
2	An Efficient Load Balancing Algorithm for Mining Frequent Item sets for Large Transactional Data.	**International Journal of Environmental Sciences** https://doi.org/10.64252/evdd8j89	**2025 Scopus** Waiting for Indexed	2229-7359
3	Lightweight Deep Learning Approach for Monkeypox Detection	**Grenze International Journal of Engineering and Technolog** https://thegrenze.com/index.php?display=page&view=journalabstract&absid=4452&id=8	**2025 Scopus** Waiting for Indexed	2395-5287
4	AI-powered empathy: Sentiment analysis in personal care using ROBERTA and XLNET	**JTAIT** https://www.jatit.org/volumes/Vol103No8/29Vol103No8.pdf	**2025 Scopus** Indexed	1817-3195

5	Secure Online Assessment Platform with AI-based Proctoring	**Grenze International Journal of Engineering and Technolog** https://thegrenze.com/index.php?display=page&view=journalabstract&absid=4364&id=8	**2025 Scopus** Waiting for Indexed	2395-5287
6	Federated Learning Integration to Build Robust Urban Intelligence for Smart Cities	**Global Transition** https://ssrn.com/abstract=5078569 or http://dx.doi.org/10.2139/ssrn.5078569	**ESCI** Indexed Pre-Print	2589-7918
7	Intelligent steganography: CNN-based data hiding in edge regions and	**JTAIT** https://www.jatit.org/volumes/Vol103No13/23Vol103No13.pdf	**2025 Scopus** Indexed	1817-3195
8	Maximizing Privacy in Federated Learning: Analysis of Effective Cryptographic Techniques	**IRJMS** https://www.irjms.com/wp-content/uploads/2025/07/Manuscript_IRJMS_03986_WS.pdf	**2025 Scopus** Indexed	2582-631X
9	Development Of Efficient Protocols for The Secure Transmission of Training Parameters in A Federated Network Using Elliptic Curve Cryptography	**JTAIT** https://www.jatit.org/volumes/Vol103No2/2Vol103No2.pdf	**2025 Scopus** Indexed	1817-3195
10	Revolutionizing Diabetic Retinopathy Detection: A Deep Learning Approach with CNN and ResNet50	IJMTLM https://ijmtlm.org/index.php/journal/article/view/694/482	**2024** Waiting for **Scopus** Indexing	0974-4614
11	Predicting Air Quality Index in Real Time and Classifying Its Health Effects: Advancements in Machine Learning	IJMTLM https://ijmtlm.org/index.php/journal/article/view/959/693	2**024** Waiting for **Scopus** Indexing	0974-4614
12	A Comprehensive Study on Diabetic Retinopathy Detection and Stage Classification through Deep Learning	MDPI (Electronic Conference) https://sciforum.net/paper/view/17884.	**2024** **ESCI**	2227-9717
13	Federated learning for next word prediction: a distributed approach for improved language models	International journal of advance research and innovative ideas in education.	**2024** **(UGC)**	2395-396
14	Normalization of duplicate records from multiple sources	Advanced solid state & electrochemical science & technology (ECS)	**2022** **SCOPUS**	1938-5862

15	C-Trend: A Distributed framework for clustering concept drifting categorical data across web based applications	Advanced solid state & electrochemical science & technology (ECS)	**2022** **SCOPUS**	1938-5862
16	Deep Convolutional Neural network-based image steganography Technique for Audio Image hiding Algorithm	International Journal of Engineering and Advanced Technology (IJEAT) **https://www.ijeat.org/wp-content/uploads/papers/v9i4/D7843049420.pdf**	**2020** **SCOPUS**	2249-8958
17	A Compression Algorithm for DNA Palindrome compression Technique	Journal of ITM Web of Conferences https://doi.org/10.1051/itmconf/20203203006	**2020 SCOPUS (Open Access)**	2271-2097
18	A New Approach in Cloud Environment to Improve Data Security Using Multiple Bits	Springer, Singapore https://doi.org/10.1007/978-981-16-1249-7_2	July & 2021 **SCOPUS**	978-981-16-1249-7
19	A study of cyber security maneuversbuilt on machine learning & deep learning	International Journal of Recent Development Science & Technology	2020	2581–4575
20	Mechanized health alert system using HUI miner	International Journal of Recent Development Science & Technology	2020	2581–4575
21	SMART TRADERS' PRODUCT	Journal of Applied Science and Computations	2019	2793-2799
22	META APPROACH: TRUST ASSESSMENT IN CLOUD INFRASTRUCTURE	Journal of Applied Science and Computations	2018	1076-5131
23	A Selective strategy in searchingusing dynamic indexing	International Journal of Reviews on recent Electronics and Computer science	2016	2321-5461
24	Dynamic Image Retrieval based on Visual Features	International Journal of Applied Sciences, Engineering and Management	2015	2320-3439

25	Cache-Aside Approach for cloud design Pattern	International Journalof Computer Science and Information Technologies	2014	0975-9646
26	Application of Bone Fracture Evaluation Using A-Mode Ultrasound System	International Journal of Advanced Research in Computer Science	2013	0976-5697
27	Preventing Data Leakage in Distributive Strategies by Steganography Technique	International Journal of Computer Science and Information Technologies	2013	0975-9646
28	Load Flaking on Continuous Monitoring of Spatial Queries	International Journal of Computer Science and Information Technologies	2012	0975-9646

PATENTS

S. No	Patent Application No.	TITLE	Date of the Patent Published	STATUS
1	202341065948 A	MULTI UTILITY WHEELCHAIR FOR CRAWLING PEOPLE	02-02-2024	Published

R E S E A R C H   I N T E R E S T S

- Federated Learning
- Deep Learning
- Machine Learning
- Computer Networks & Security

INTERNATIONAL CONFERENCES

1. *Presented a paper on* **"An Analytical Study of Next-Generation IoT Architectures for Precision Agriculture"** *at* **2025 IEEE Pune Section International Conference (PuneCon)** *Pune, India* https://ieeexplore.ieee.org/document/11378029 *(Scopus Indexed)*

2. *Presented a paper on* **"Efficient Protocols for the Secure Transmission of Training Parameters in a Federated Network: Research Frontiers, Taxonomy, and Future Directions"** *at Silicon University, Odisha, India in 2024* https://ieeexplore.ieee.org/document/10862150 *(Scopus Indexed)*

3. *Presented a paper on* **"Credit Endorsement Forecast Utilizing Troupe Learning and XGBoost"** *at IIT Kottayam, Kerala in 2024* https://ieeexplore.ieee.org/document/10779617 *(Scopus Indexed)*

4. *Presented a paper on* **"Web-Interfaced Diagnosis System of Diabetes Prediction Using Machine Learning Algorithms"** *at Siddaganga Institute of Technology, Tumakuru* https://ieeexplore.ieee.org/document/10561359 *(Scopus Indexed)*

5. *Presented a paper on* **"A Comprehensive Study on Diabetic Retinopathy Detection and Stage Classification through Deep Learning"** *at* **MDPI-2023** in **The 3rd International Electronic Conference on Processes** session **Process Control and Monitoring**.

6. *Presented a paper on* **"An Empirical Study on Security Methods for Federated Learning" at** International Conference on Advanced Communications and Machine Intelligence (MICA-2023) *in* **NITW**. *https://link.springer.com/chapter/10.1007/978-981-97-6222-4 2* **(Scopus Indexed)**

7. *Presented a paper on* **"A Compression Algorithm for DNA Palindrome Compression Technique" at** *International Conference on Automation Computing Communication* **(ICACC-2020)** *in DY PATIL UNIVERSITY.* **https://www.itm-conferences.org/articles/itmconf/pdf/2020/02/itmconf icacc2020 03006.pdf**

8. Presented a paper on **"A NEW APPROACH IN CLOUD ENVIRONMENT TO IMPROVE DATA SECURITY USING MULTIPLE BITS** on soft computing & its Signal processing. **(ICSCSP-2020**) in Mall Reddy College of engineering & Technology. https://link.springer.com/chapter/10.1007/978-981-16-1249-7 2

9. *Presented a paper on* **Multi-Agent System by Using BDI in Artificial Intelligence** at National Conference in **NRI Institute of Technology 2016.**

10. *Presented a paper on* **A Study of Motric Capacity Enhancement in People with Disabilities towards Social Integration** *at National Conference in* **KL University 2013.**

11. *Presented a paper on Application of Bone Fracture Evaluation using A-mode Ultrasound system at National Conference in VIGNAN University 2013.*

ORGANIZED WORKSHOPS & SEMINARS

1. We Organized the A WEBINAR ON **"MACHINE LEARNING ALGORITHMS FOR REAL WORLD APPLICATIONS"** in 2020.

2. We Organized the A **2 Days** Workshop on **FDP "A TWO DAYS ONLINE WORK SHOP ON RESEARCH METHDOLOGIES AND TECHNICAL WRITING" in 2020.**

3. I worked as a **Single Point of Contact (SPOC) for** A One Week Short Term Training Programme on Predictive Analytics using Artificial Intelligence **(STTP- PAUAI) of** 4 phases, sponsored by **AICTE.**

PARTICIPATED WORKSHOPS & SEMINARS

1. Participated to One Month International work shop on "**remotely monitored and controlled & real time Implementation of incubation parameters via cutting edge IOT & Cloud technology"** organized by Methodist College of engineering & Technology in 2024.

2. Participated to the One Week Online FDP on **Instructional Design & Delivery Systems** organized by National Institute of Technical Teachers' Training & Research **(NITTTR), Kolkata** in 2023.

3. Participated to the One Week Online FDP on Design & Analysis of Algorithm organized by National Institute of Technical Teachers' Training & Research **(NITTTR), Chennai** in 2023.

4. Participated to the One Week Online FDP on Design & Analysis of Algorithm organized by National Institute of Technical Teachers' Training & Research **(NITTTR), Chennai** in 2023.

5. Participated to the One Week FDP on Artificial Intelligence (AI) organized by Tech Saksham & MZU in 2022.

6. Participated to the Two Weeks A Continuous Professional Development Programme **(CPDP)** on **"Cyber Security & Digital Forensics" in MZU Mizoram organized** by the **Dept of CSE & IT** in **2022**

7. Participated to the One Week Faculty Development Program on **"DEEPLEARNING WITH AI APPLICATIONS" in NRIIT Vijayawada** organized by the **E&ICT academy NIT Warangal** in **2021**

8. Participated in Two Day FDP on **"Enhancing Teaching Skills" Organized by the NRI Institute of technology, Vijayawada** in **2020**.

9. Participated in Three Days FDP on **"Enhancing Teaching Skills" Organized MIC College of Engineering, Vijayawada.**

10. Participated to the **National level workshop on BLUEMIX in MIC College of Engineering, Vijayawada.**

11. Participated to the **National level workshop on Bio Informatics in PVPSIT, Vijayawada.**

12. Participated to the **National level workshop on GRID COMPUTING workshop** in **G.E.C.**

13. Participated to the **Microsoft workshop on system integration** in **G.E.C.**

14. Participated to the **National level seminar on DATA MINIG AND ITSAPPLICATION** in **G.E.C.**

15. Participated to the **National level workshop on HIGH PERFORMANCE COMPUTING** in **V.R. SIDDHARTHA Engineering College, Vijayawada.**

CERTIFICATION COURSES

- Swayam NPTEL certified course on "Python for Data Science "
- Swayam NPTEL certified course on "Introduction to Machine Learning "
- EDx certified course on Introduction to Cloud Computing
- EDx certified course on Introduction to Software Engineering Basics for Everyone.
- Swayam NPTEL certified course on "Theory of Computation "
- Swayam NPTEL certified course on "Teaching and Learning in Engineering (TALE) "

MEMBERSHIP IN PROFESSIONAL

- REVIEWER of Edwin Group of Journal
- REVIEWER of Journal of computer science and mechatronics-IJCSM
- MEMBER of **IEEE**
- MEMBER of **IAENG** (International Association of Engineers)
- MEMBER of **IAER** (International Association for Educators and Researchers)

ACHIEVEMENT

- Got **Best Researcher Award** from LANCE RESEARCH INSTITUTE Chennai in 2024 June
- Got **Young Scientist** Award from IOSRD Chennai in 2018 July.
- Got **Commendation** for NBA-Accreditation from Gudlavalleru Engineering College.
- Ratified as Asst.Professor in JNTUK in 2020 & 2024.

ADDITIONAL RESPONSIBILITIES

- Appointed as **Academic Auditor Member** from AI & DS Department in **LBRCE.**
- Department **R & D Coordinator** in LBRCE
- Coordinator of PMGDISHA
- M.Tech coordinator
- Exam section in charge
- Department In charge.
- BOS Member for Autonomous College.
- NSS Coordinator.

SUBJECT TAUGHT

1. Artificial Intelligence
2. Pattern recognition
3. Automat & Compiler Design
4. Devops Lab
5. Python Programming
6. Formal Language & Automata Theory
7. Compiler Design.
8. Object Oriented Analysis and Design (using UML)
9. Principles of Programming Languages
10. Operating Systems.
11. C & Data Structures
12. Object Oriented Programming through C++
13. Distributed Systems
14. Software Engineering
15. Computer Networks.
16. Software Testing Methodologies
17. Design Patterns
18. Cryptography and Network Security

DECLARATION

I hereby **declare** that the information furnished above is true to the best of my knowledge.

Sd/-
Narendra babu Pamula