

BIO-DATA

Name: B.Usha Rani

AITAM Employee ID: A5INT00T36

Designation: Assistant Professor

Department: Information Technology

Date of Birth: 15.05.1988

Father Name: Late RamaRao

Mother Name Late Tulasamma

Reservation Category: BC-‘A’

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Date of Joining in the Institution: 19-06-2023



Academic Excellence:

Qualification	Board /University	Division	Year
M. Tech (CSE)	JNTUK	FIRST Class with Distinction	April 2014
B. Tech	JNTUK	FIRST Class with Distinction	April 2011

Total Years of Experience: 4.5 years

Period		Organization/Institution	Designation
Jun 13 2022	Till Date	AITAM, Tekkali	Asst Professor
July 2014	Jun 2017	PITAM, Ramakrishnapuram	Asst Professor

Areas of Interest:

- Unix Programming
- Data Mining and Ware Housing
- Data Base Management Systems
- Object Oriented Programming
- Operating Systems
- Data structures
- Software Engineering
- Ad-Hoc Sensor Network
- Advance Java Web Technologies
- IT system Management

Guidance of Academic Projects:

- i) Doctoral Projects : -
- ii) Masters Projects : -
- iii) Bachelor Projects : - 04

Memberships of Professional Societies and Other Organizations:

1. IAENG (351790)
2. IFERP (PROF-41144894)
3. AMIEE (AMI/24/0549)

Other Responsibilities:

1. Course Files Incharge
2. E-Learning Coordinator
3. Value added courses Incharge
4. Educational Loans Coordinator
5. Content beyond syllabus Coordinator

Details of Paper Publications:

1. Birlangi Usha Rani, U.D Prasana, “A Fast and Simple Text Clustering in Distributed Systems”(IJETT, Volume No:6(2013), Issue No:1(Dec), ISSN NO:2231-5381)
2. B.Usha Rani, K.Koushik Panda, “A Novel Image Deraining Using Multi Scale Progressive Fusion Technique”(ZKG International, Volume IX, Issue 1, April 2024, ISSN: 2366-1313)
3. Sariki Ravi Kumar, T. Chandra Sekhar Rao, J. Venkata Suman, B.Usha Rani “IOT Based Remote Patient Health Monitoring System” (E3S Web of Conferences 591, 08005(2024) ICRERA-2024

4. B.Usha Rani,V. Yamuna, Linga Raju Behera, “Road Crack Detection using Deep Learning” published in 2024 2nd International Conference on Artificial Intelligence Trends and Pattern Recognition, IEEE Conference.
5. Birlangi Usha Rani, T.Sonalika, “optimized Pneumonia Detection via CT Scans: A Comparative Analysis of Transfer Learning Models”(ICMERI-2025, ISBN NO:978-93-342-2363-7)

Patents:

1. Indian Patent No.202441053557:”MACHINE LEARNING-DRIVEN KIDNEY STONE DETECTION AND PREDICTION USING ULTRASONOGRAPHIC IMAGE PROCESSING” (Published).
2. Indian Patent No.202441057937:”ENCHANCED ROAD SAFETY FOR SPEED DETECTION AND WARNING SYSTEMS WITH IOT AND CLOUD INTEGRATION ” (Published)
3. Indian Patent No.202541015893: ”CLOUD BASED PREDICTIVE PLATFORM FOR DETECTING IRREGULAR HEARTBEATS AND ARRHYTHMIAS USING IOT DATA AREA:MACHINE LEARNING” (Published)
4. Indian Patent No. 202541014925: ”FARMER’S THIRD SOLAR POWERED PESTICIDE SPRAYER MACHINE USING AI & IOT TECHNOLOGY” (Published)
5. Indian Patent No. 202541018988: ” REAL TIME SMOKE & FIRE DETECTION AND ALERT SYSTEM USING TRANSFER LEARNING ALGORITHMS” (Published)

Books:

1. Book Title “Natural Language Processing: Fundamentals And Applications in WELL TECH INTERNATIONAL PUBLISHING HOUSE ISBN 5/9-93-49050-56-5

Details of Conferences/Workshops/Refresher Courses Attended/Organized:**Internal:**

S. No.	Dates	Name of the Programme	Host Institution
1	15 th -20 th Sep 2025	Deep Learning & Its Real Time Applications	AITAM, Tekkali
2	23 rd -27 th Jun 2025	Application Development with AI & Essential Skills	AITAM, Tekkali
3	17 th -24 st Mar 2025	Python for Engineering Applications	AITAM, Tekkali
4	23 rd -24 th Dec 2024	Design Thinking and Entrepreneurship	AITAM, Tekkali
5	21 st -25 th Oct 2024	Tools for Research in Cloud, Fog and Edge Computing	AITAM, Tekkali
6	23 rd – 27 th Sep 2024	Cloud Application Development using IBM Cloud in collaboration with IBM	AITAM, Tekkali
7	2 nd – 6 th Sep 2024	Deep Learning for Engineering Applications	AITAM, Tekkali
8	05 th -09 th Aug 2024	Preparing Students for Placements and Higher Studies	AITAM, Tekkali
9	3 rd -7 th Jun 2024	Design Thinking and Entrepreneurship	AITAM, Tekkali
10	21 st -23 rd Dec 2023	Inculcating Universal Human Values in Technical Education	AITAM, Tekkali
11	16 th -20 th Oct 2023	Employability Skills for Industry 4.0	AITAM, Tekkali
12	11 th -15 th Sep, 2023	NAAC and Internal Quality Assurance	AITAM, Tekkali
13	7 th -11 th Aug, 2023	Protection from Cyber Attacks	AITAM, Tekkali
14	24 th -28 th July, 2023	Funding Opportunities in Engineering	AITAM, Tekkali

External:

S. No.	Dates	Name of the Programme	Host Institution
1	15 th -19 th Sep 2025	Next-Generation Business Intelligence: Quantum Computing and Cognitive Analytics	GMRIT, Rajam
2	03 rd -07 th Mar 2025	Quantum Computing in Artificial Intelligence and Machine Learning Using Qiskit	GMRIT, Rajam
3	18 th -23 rd Nov 2024	The Revolution of Large Language Models (LLMs) in Artificial Intelligence	AICTE, Vidya Jyothi Institute Of Technology

4	16 th -20 th Sep 2024	Artificial Intelligence and Data Analytics	MITS,Madanapalle
5	21 st -25 th May 2024	Generative Artificial Intelligence and Machine Learning	SIEM,Nashik
6	26 th -1 st Mar 2024	Integration of IOT & Block Chain to implement smart Education and Healthcare	GMRIT, Rajam

Faculty Development Programs:

- Participated in faculty development program on NPTEL-“Python for Data Science”
- Participated in faculty development program on NPTEL-“ Design Thinking - A Primer”

Certifications:

1. Got certified with Elite (69%) from NPTEL online certification course (4 Weeks) on “Design Thinking - A Primer” in Jan 2025
2. Got certified with Elite (71%) from NPTEL online certification course (4 Weeks) on “Python for Data Science” in Sep 2024
3. Got certified from NPTEL online certification course (12 Weeks) on “Introduction to Database Systems” in Apr 2024.
4. Got certified with Elite (66%) from NPTEL online certification course (8 Weeks) on “Accreditation and Outcome Based Learning” in Oct 2023

Achievements:

1. Acted as a Jury Member for “SQL COMPETITION” event hosted at AITAM, Tekkali on 28th June 2024.
2. Acted as a Jury Member for “11th District Level Exhibition & Project Competitions - Inspire Manak Awards 2022-23 ” event hosted at AITAM, Tekkali on 15th Feb 2024.



Signature of Faculty