

# Bala Bhaskara Rao Emani

Assistant Professor, Computer Science & Engineering

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## Career Objective

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To pursue a challenging academic career as an Assistant Professor in Computer Science, contributing through quality teaching, impactful research, and active involvement in institutional development.

## Academic Qualifications

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Year	Degree	Specialization	University	CGPA/%
2012–2014	M.Tech	Computer Science & Technology	Andhra University	9.46
2008–2012	B.Tech	Computer Science & Engineering	Nagarjuna University	86.14
2007	Intermediate	MPC	BIE AP	76.9
2005	SSC	–	BSE AP	72.46

## Ph.D. Details

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- Qualified APRCET–2021
- Admitted to Ph.D. (Part-Time), JNTUK
- Pre-Ph.D-Completed

## Achievements & Certifications

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1. Certified as **Wipro Certified Faculty** and successfully cleared the **Talent Next Assessment**, and recognized as a **Mentor for Project Based Learning (PBL)** in **Java J2EE**.
2. Certified in **Microsoft Azure** in the year **2022**.
3. Qualified **APRCET–2021** and admitted to **Ph.D. (Part-Time)** at **Jawaharlal Nehru Technological University Kakinada (JNTUK)**.
4. Secured **90% (Top 1%)** in **NPTEL Online Certification** on **Problem Solving Through Computer Programming**.
5. Secured **89% (Top 2%)** in **NPTEL Online Certification** on **Programming in Java**.
6. Ratified by **Jawaharlal Nehru Technological University Kakinada (JNTUK)** as **Assistant Professor**, Department of Computer Science & Engineering, at **Prasad V. Potluri Siddhartha Institute of Technology, Vijayawada**.

## Teaching Experience

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S.No	Institution	Designation	From	To
1	Prasad V. Potluri Siddhartha Institute of Technology (Autonomous), Vijayawada	Assistant Professor	Aug 2022	Present
2	Seshadri Rao Gudlavalleru Engineering College (Autonomous)	Assistant Professor	Jun 2018	Aug 2022
3	SASI Institute of Technology & Engineering (Autonomous), Tadepaligudem	Assistant Professor	Sep 2015	Jun 2018

## Subjects Taught

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- C Programming
- Design and Analysis of Algorithms
- Data Structures using C
- Formal Languages and Automata Theory (FLAT)
- Operating Systems
- Advanced Data Structures and Algorithm Analysis
- Compiler Design
- JAVA Programming
- C++ Programming

## Publications

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1. Bala Bhaskara Rao Emani, “Paddle OCR Deep Learning–Based Traffic Violation Detection Using YOLOv8 and Paddle OCR,” in **Proceedings of the 5th International Conference on Pervasive Computing and Social Networking (ICPCSN)**, 2025.  
**DOI: [10.1109/icpcsn65854.2025.11035399](https://doi.org/10.1109/icpcsn65854.2025.11035399)-(IEEE-SCOPUS)**
2. Bala Bhaskara Rao Emani, “Speech Signal-Based Detection and Staging of Parkinson’s Disease,” in **Proceedings of the International Conference on Inventive Computation Technologies (ICICT)**, 2025.  
**DOI: [10.1109/icict64420.2025.11004856](https://doi.org/10.1109/icict64420.2025.11004856)-(IEEE-SCOPUS)**
3. Bala Bhaskara Rao Emani, “Unraveling the State of the Art: A Comprehensive Review of Brain Tumor Detection Techniques,” in **Proceedings of the 4th International Conference on Technological Advancements in Computational Sciences (ICTACS)**, 2024.  
**DOI: [10.1109/ictacs62700.2024.10840747](https://doi.org/10.1109/ictacs62700.2024.10840747)-(IEEE-SCOPUS)**
4. Bala Bhaskara Rao Emani, “Prediction of Crime Hotspots with Stacked Generalization Approach,” in **Proceedings of the 5th International Conference on Recent Trends in Computer Science and Technology (ICRTCST)**, 2024.  
**DOI: [10.1109/icrtcst61793.2024.10578545](https://doi.org/10.1109/icrtcst61793.2024.10578545)-(IEEE-SCOPUS)**

5. Bala Bhaskara Rao Emani, “*The Graph – A Decentralized Query Protocol for Blockchain Technology*,” in **Proceedings of the Third International Conference on Inventive Research in Computing Applications (ICIRCA)**, 2021.  
**DOI: 10.1109/icirca51532.2021.9544920-(IEEE-SCOPUS)**
6. Bala Bhaskara Rao Emani, Satya Srinivas Maddipati, Reddy Krishna Rao, “*Graph Tea: Simulating Tool for Graph Theory and Algorithms*,” **International Journal for Modern Trends in Science and Technology (IJMTST)**, Vol. 2, Issue 6, June 2016. ISSN: 2455-3778.
7. Bala Bhaskara Rao Emani, Vijaya Krishna Sonthi, Satya Srinivas Maddipati, “*A Novel Filtered Classification Algorithm for Network Intrusion*,” **International Research Journal of Engineering and Technology (IRJET)**, Vol. 3, Issue 6, June 2015. ISSN: 2395-0056 (Online), 2395-0072 (Print).
8. Sonthi Vijaya Krishna, Bala Bhaskara Rao Emani, “*Trust Based Adhoc On Demand Routing Protocol for MANET*,” **International Journal of Multidisciplinary Engineering, Technology and Management Research (IJMETMR)**. ISSN: 2348-4845.
9. M. Satya Srinivas, Bala Bhaskara Rao Emani, “*Epilepsy Seizure Detection using IoT and Support Vector Machine with Spline*,” **International Journal of Computer and Mathematical Sciences (IJCMS)**, Vol. 6, Issue 11, November 2017. ISSN: 2347-8527.
10. E. Bala Bhaskara Rao, Ch. Naresh, Ch. Pavan Kumar, B. Vasanthi, Ch. Nikhitha Chowdary, “*Image Forgery Detection using AlexNet Neural Networks*,” **International Journal of Industrial Engineering and Management Research (IJIEMR)**, Vol. 11, April 2022. DOI: 1048047/IO4/23.

### Session Speaker

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1. Served as **Session Speaker** for “*Data Science Fundamentals*” at a Faculty Development Program conducted by **MIC College of Technology**. Appreciated for delivering engaging sessions with effective interaction and impactful knowledge sharing.
2. Served as **Session Speaker** for “*Basic Python Programming*” organized by **PVP-SIT ISTE Chapter** in collaboration with the **Department of CSE**. Recognized for valuable contribution and active participation during the program (July 2024).

### Faculty Development Programs, Workshops & Professional Activities

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1. Successfully completed **NEP 2020 Orientation & Sensitization Programme–13** under **Malaviya Mission Teacher Training Programme (MM-TTP)**, University Grants Commission (UGC), organized by UGC Malaviya Mission Teacher Training Centre, **JNTU Hyderabad**, from **20 June 2024 to 28 June 2024**.
2. Attended **One-Week Faculty Development Program on “Cloud Computing (Live FDP)”**, organized by **ICT Academy**, from **23 November to 30 November 2023**.
3. Attended **Four-Week Faculty Development Program on “Python Programming”**, organized by **VRSE**, from **16 March to 1 April 2024**.

4. Attended **Research Conclave**, organized by JNTUK, from **16 August**.
5. Attended **Two-Week Faculty Development Program on “Wipro Certified Faculty on Java”**, from **16 March to 1 April 2021**.
6. Attended **One-Week Faculty Development Program on “Flutter UI Design (Online Live FDP)”**, organized by **ICT Academy**, from **23 November to 30 November 2020**.
7. Attended **Five-Day Faculty Development Program on “Cyber Security”**, at **Gudlavalleru Engineering College**, from **2 November to 7 November 2020**.
8. Attended **One-Week Online FDP on “Universal Human Values in the Context of Student Induction Programme”**, organized by **NIT Warangal**, from **4 November to 16 November 2019**.
9. Attended **Two-Week Faculty Development Program on “Machine Learning to Deep Learning: Trends and Challenges”**, organized by **Lakireddy Bali Reddy College of Engineering, Mylavaram**, from **4 November to 16 November 2019**.
10. Attended **One-Day Faculty Development Program on “Deep Learning Architecture”**, organized by **Pantech Solutions**, on **25 May 2020**.
11. Attended **Five-Day Faculty Development Program on “Blockchain Technologies”**, at **Gudlavalleru Engineering College**, from **9 June to 13 June 2020**.
12. Attended **One-Week Faculty Development Program on “Machine Learning and Deep Learning”**, at **Gudlavalleru Engineering College**, from **27 May to 1 June 2020**.
13. Attended **One-Week Workshop on Important Engineering Subjects – Phase II: Python Programming**, organized by **JNTU Kakinada**, from **27 May to 1 June 2019**.
14. Attended a **Faculty Development Program on “WIDTH”**, organized by **JNTUK, Kakinada**, from **20 March to 22 March 2019**.
15. Attended a **Faculty Development Program on “Data Analytics and IoT”**, organized by **E&ICT Academy, NIT Warangal**, at **SASI Institute of Technology & Engineering, Tadepalligudem**, from **1 November to 6 November 2016**, and secured **Grade “A”**.
16. Served as an **Organizing Committee Member** in the **3rd International Conference on Electrical, Electronics, Engineering Trends, Communication, Optimization and Sciences (EEECOS/E3COS–2016)**, organized by **SASI Institute of Technology & Engineering, Tadepalligudem**, from **1 June to 2 June 2016**.
17. Ratified by **Jawaharlal Nehru Technological University Kakinada (JNTUK)** as **Assistant Professor**, Department of **Computer Science & Engineering, SASI Institute of Technology & Engineering**, in **2015**.
18. Participated in workshops on **Open Source Content Management Systems, Data Mining, and Microsoft Technologies**, organized by **CSESTA**.
19. Participated in a workshop on **VMware**, organized by **YAGNA**.

20. Participated in **Paper Presentation** at **DMSSVH College of Engineering**.
21. Actively participated in **National Service Scheme (NSS)** at **DMSSVH College of Engineering**.
22. Actively participated in **Computer Technical Association** activities at **DMSSVH College of Engineering**.
23. Participated in **Essay Writing Competitions** at School and College levels.

### **Personal Details**

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- Date of Birth: 01-06-1989
- Gender: Male
- Marital Status: Married
- Nationality: Indian
- Languages Known: English, Telugu

### **Declaration**

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

Place: Vijayawada

**Bala Bhaskara Rao Emani**

Date: