

RESEARCH INTERESTS	Cloud Computing, Data Analytics, Sustainability, Ethical AI, Machine Learning, Robotics, Computer Vision, Remote Sensing, Natural Language Processing	
EDUCATION	B V Raju Institute of Technology B. Tech in Computer Science and Engineering CGPA: 8.65/10.00	May 2025 (Expected)
	Sri Chaitanya Junior College Intermediate Percentage: 94%	Mar 2021
	Sri Chaitanya Techno Curriculum Secondary Education CGPA: 9.7/10.0	Mar 2019
PUBLICATIONS	Sowmya, D., Debbata, K. , Vignesh, G. S., Sagar, D. S. N., Bavanthula, A. R., Pallavi, L. (2023, August). Emerging Role of Healthcare Chatbots in Improving Medical Assistance. In 2023 3rd Asian Conference on Innovation in Technology (ASIANCON) (pp. 1-6). IEEE. [Link]	
	Pallavi, L., Kosuru, S. S., Dulam, A. G., Datla, K. V., Debbata, K. , Gangavarapu, R. C. (2023, June). Data Analytics on Opportunities for Women in the Field of Technology. In 2023 5th International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA) (pp. 1-6). IEEE. [Link]	
RESEARCH EXPERIENCE	B V Raju Institute of Technology <i>Research Assistant, Computer Science Department.</i> Supervisors: Dr. Lanke Pallavi and Dr. Ch. Madhu Babu Conducted interdisciplinary research in AI/ML, Computer Vision, Data Analytics, and Sustainability, developing models for object detection, chatbots, multi-object tracking, and environmental monitoring, with a focus on real-world applications in healthcare, remote sensing, and waste management.	Mar 2023 - Present
WORK EXPERIENCE	One Convergence, Hyderabad, India <i>Software Engineering Intern</i>	Apr 2023 - Sept 2023
	<ul style="list-style-type: none"> Leveraged PHP, WordPress, and JavaScript to improve user interactions, implement new features, and enhance existing functionalities. Managed and maintained the backend database using PhpMyAdmin, ensuring data integrity and efficient 	
	JavaTpoint, Hyderabad, India <i>Technical Content Writer Intern</i>	Nov 2022 - May 2023
	<ul style="list-style-type: none"> Researched about various technical topics and new technologies. Wrote several technical articles on different topics like SQL, C, C++, Computer Networking. 	

PROJECTS

College Bus Application | Android Application

Engineered a mobile application using Java, Kotlin, and XML, integrating external libraries such as QR scanning technology, ZXing open-source camera library, and Firebase for seamless attendance tracking and data management.

Healthcare Chatbot App | Mobile Application

Developed an NLP-based Healthcare Chatbot capable of providing medical advice, managing health - inquiries, and efficiently tracking patient records, using Flutter, Dart, Firebase, and GPT on the Flutter Flow platform.

AI – Driven Plastic Waste Detection System | Web Platform

Developed an AI-powered multi-object detection and tracking model using DETR and ByteTrack to identify and analyze plastic waste on riverbanks. Integrated hydrodynamic modeling and simulations to predict waste dispersion patterns for effective cleanup strategies. Built a web-based platform for image and video uploads, enabling real-time detection and visualization of plastic waste locations and types.

SKILLS

Programming Languages: Java, Python, C++, JS, PHP, Kotlin

Databases: SQL, Firebase

Cloud Development: GCP ([Certified](#)), AWS

Frameworks: Flask, Flutter

Tools & Technologies: Git, Linux, WordPress, Android Development