

BALA PAVANI KOPPURAVURI

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EDUCATION

Master of Science , Georgia State University Computer Science GPA 4.2/4.3	August 2025 - December 2026
Bachelor of Technology , SRM University AP Computer Science and Engineering CGPA 9.04/10	August 2021 - May 2025

WORK EXPERIENCE

Georgia State University - MORSE Lab (Volunteer)	January 2026 - Present
• Attend weekly MORSE Lab meetings, actively participating in research discussions by sharing ideas and feedback. • Collaborate with researchers to understand ongoing projects and explore potential research opportunities.	
Georgia State University (Graduate Teaching Assistant)	August 2025 - Present
• Mentoring 150+ students in Data Structures using Python course and Principles of Computer Science course. • Assisting in development of course material, grading and related research.	
Coincent (Data Science Internship)	October 2023-December 2023
• Developed Surprise Housing Case Study by data preprocessing and building ML model using GridSearchCV and Ridge Regression, which is used to model the price of houses with available independent variables. • Data cleaning, Exploratory data analysis, Data preparation is done on imported dataset	
SRM University AP (Summer Research Internship)	June 2023-August 2023
• Research on how machine learning is used in Person Authentication and EEG datasets. • Implemented KNN, SVM on various datasets like EEG.	
ILP Overseas (Human Resource Internship)	January 2023-February 2023
• Posted job descriptions online, assisted in interview processes and recruitment from start to finish. • Successfully managed the recruitment and onboarding process for employees. • Assisted with interviewing applicants for Talent Team positions.	

PUBLICATIONS

Journal (Published - Scientific Reports)	August 2025
Ch Madhu Bhushan, Priya Koppuravuri , Nomitha Prasanthi et al. Deploying TinyML for Energy-Efficient Object Detection and Communication in Low-Power EdgeAI Systems. (Journal Link)	
Conference (Accepted - IEEE CINE)	January 2026
Ch Madhu Bhushan, Priya Koppuravuri , Nomitha Prasanthi B, Firoz Gazi, Md. Muzakkir Hussain " Multi-Controller TinyML Architecture for Object Detection with Efficient Communication and Applications"	
Patent (Published - Intellectual Property India)	September 2025
Koppuravuri Bala Pavani Lakshmi Priya, Chakka Madhu Bhushan, Nomitha Prasanthi Bisiringi, Fazal Shaik, Siripalli Hemanth Durga Kumar, Firoz Gazi, Md. Muzakkir Hussain "Multi-Controller TinyML Architecture for Object Detection with Efficient Communication and Applications" - Patent Application Number: 202541087210	
Patent (Published - Intellectual Property India)	August 2025
Chakka Madhu Bhushan, Koppuravuri Bala Pavani Lakshmi Priya , Surayya Aruvanpuzha, Firoz Gazi, Md. Muzakkir Hussain, Dinesh Reddy Vemula "System and Method for Air Quality Monitoring and Alert Generation using Artificial Intelligence" - Patent Application Number: 202541000511.	

Patent (Published - Intellectual Property India)	October 2024
Fazal Shaik, Meka Naga Nandini Devi, Surayya Aruvanpuzha, Chakka Madhu Bhushan, Koppuravuri Bala Pavani Lakshmi Priya , Firoz Gazi, Mohammad Abdussami, Md. Muzakkir Hussain "ATTENDEdge: An Edge-AI-based Smart Attendance System using 3D Object Detection" - Patent Application Number:202441077282.	

Book chapter (Published)	October 2025
Farha Fatma, Priya Koppuravuri , Pratyusha Ghanne, Firoz Gazi, Md.Muzakkir Hussain "Development of a Deep Learning model for OCT image classification for Central Serous Chorioretinopathy", In Transformtive Technologies in Healthcare: A Deep Dive into AI and Machine learning, Cambridge Scholars Publishing. (Book Chapter Link)	

ACHIEVEMENTS

- Awarded Gold Medal in 9th Research Day SRM University AP 2025 for research work "Multi-Controller TinyML Architecture for Object Detection with Efficient Communication and Applications"

PROJECTS

Property Pulse — FCM, Flutter, Firebase, Cloudinary (GitHub Link)	November 2025 - December 2025
<ul style="list-style-type: none">Designed an interactive real estate exploration app enabling personalized property discovery, shortlisting, geolocation-based search, and direct buyer - seller engagement.Implemented Firebase Authentication, Firestore-backed listings, Cloudinary image management, and real-time push notifications using FCM for instant seller alerts and user interactions.	
Campus Swap & Freecycle — Flutter, Firebase, Cloudinary (GitHub Link)	September 2025 - October 2025
<ul style="list-style-type: none">Developed a campus marketplace app enabling item swapping, selling, and freecycling with token-based transactions, geolocation listings, wishlist, and reviews.Implemented secure Firebase authentication, Firestore database management, and Cloudinary image uploads with a clean, user-friendly Flutter UI.	
Lung Cancer Detection using CNN (GitHub Link)	November 2024 - December 2024
<ul style="list-style-type: none">Built a deep learning model to classify lung cancer into Adenocarcinoma, Benign and Squamous Cell Carcinoma to provide an intuitive interface for easy use by healthcare professionals.Analysis is done by using ResNet50 model and of all train test splits using classification metrics accuracy is improved.	
Chatbot for mental health support (GitHub Link)	January 2024 - May 2024
<ul style="list-style-type: none">Developed using MERN stack aims to provide mental health support through an AI chatbot.Functionalities include user registration, login, using chatbot, session booking and access to previous booked sessions.	
Predictive Framework for Credit card default risk (GitHub Link)	February 2024 - May 2024
<ul style="list-style-type: none">Seven machine learning models are used to predict whether the credit card holders are credible or not credible clients.Comparative Analysis is done on all models of all train test splits using classification metrics.	

SKILLS

Programming Languages	Python, Java, Data Structures and Algorithms, HTML, CSS, JavaScript.
Databases & Data Tools	MySQL, MongoDB, Data Analysis, Tableau.
ML & AI	TinyML, IoT, TensorFlowLite, PyTorch, DL, CV, CNN, RNN, LSTM, VGG, NLP, LLMs.
Web & App Development	Flutter, Dart, REST APIs, Flask, Firebase (Authentication, Firestore), Cloudinary, FCM.
Professional Tools	Git, GitHub, VS Code, Google Colab, Visual Studio, Android Studio.
Transferable Skills	Attention to Detail, Technical Communication, Problem Solving, Mentorship, Collaboration.

CERTIFICATIONS

<ul style="list-style-type: none">Deep Learning CourseraNPTEL Online Certification in Electronic Systems for Cancer DiagnosisNPTEL Online Certification in Design Implementation of Human-Computer InterfacesNPTEL Online Certification in Data Base Management SystemNPTEL Online Certification in Soft Skills	November 2025
	October 2024
	October 2024
	September 2023
	October 2022