

# BALA PAVANI KOPPURAVURI

[bkoppuravuri1@student.gsu.edu](mailto:bkoppuravuri1@student.gsu.edu) ♦ [Portfolio](#) ♦ [LinkedIn](#) ♦ [GitHub](#) ♦ +1 (943) 265-8298

## EDUCATION

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**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

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**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

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**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. Muzakkkir 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. Muzakkkir 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. Muzakkkir 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. Muzakkkir 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.Muzakkkir Hussain "Development of a Deep Learning model for OCT image classification for Central Serous Chorioretinopathy", In Transformive Technologies in Healthcare: A Deep Dive into AI and Machine learning, Cambridge Scholars Publishing. ([Book Chapter Link](#))

## ACHIEVEMENTS

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- 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

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

SKILLS & CERTIFICATIONS

<b>Programming Languages</b>	Python, Java, Data Structures and Algorithms, HTML, CSS, JavaScript.
<b>Databases &amp; Data Tools</b>	MySQL, MongoDB, Data Analysis, Tableau.
<b>ML &amp; AI</b>	TinyML, IoT, TensorFlowLite, PyTorch, DL, CV, CNN, RNN, LSTM, VGG, NLP, LLMs.
<b>Web &amp; App Development</b>	Flutter, Dart, REST APIs, Flask, Firebase (Authentication, Firestore), Cloudinary, FCM.
<b>Professional Tools</b>	Git, GitHub, VS Code, Google Colab, Visual Studio, Android Studio.
<b>Transferable Skills</b>	Attention to Detail, Technical Communication, Problem Solving, Mentorship, Collaboration.
<b>Certifications</b>	Coursera - Deep Learning, NPTEL - Electronic Systems for Cancer Diagnosis, Design & Implementation of Human-Computer Interfaces, Data Base Management System, Soft Skills.