

# BALA PAVANI KOPPURAVURI

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## EDUCATION

**Master of Science**, Georgia State University August 2025 - December 2026  
Computer Science **GPA 4.2/4.3**

**Bachelor of Technology**, SRM University AP August 2021 - May 2025  
Computer Science and Engineering **CGPA 9.04/10**

## 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.

## 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](#))

## 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>Certifications</b>             | Coursera - Deep Learning, NPTEL - Electronic Systems for Cancer Diagnosis, Design & Implementation of Human-Computer Interfaces, Data Base Management System, Soft Skills. |