

BALA PAVANI KOPPURAVURI

bkoppuravuri1@student.gsu.edu ♦ Portfolio ♦ LinkedIn ♦ GitHub ♦ +1 (943) 265-8298

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.

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. 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 Choroidretinopathy", In Transformive Technologies in Healthcare: A Deep Dive into AI and Machine learning, Cambridge Scholars Publishing. ([Book Chapter Link](#))

SKILLS & CERTIFICATIONS

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.

Certifications

Coursera - Deep Learning, NPTEL - Electronic Systems for Cancer Diagnosis, Design & Implementation of Human-Computer Interfaces, Data Base Management System, Soft Skills.