

# 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. 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

- 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>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>	
<b>Cancer Detection using Deep learning</b> ( <a href="#">GitHub Link</a> )	Sept 2023 - December 2023
<ul style="list-style-type: none"><li>• Prepared a survey on how VGG architectures in used in detection of various cancers.</li><li>• Implemented CNN VGG16 on skin cancer dataset which consists of benign and malignant tumors.</li><li>• Implemented Perceptron, ANN, CNN, VGG on various datasets.</li></ul>	

SKILLS

<b>Programming Languages</b>	Python, Java, Data Structures, Vue, HTML, CSS, JavaScript.
<b>Database</b>	MySQL, MongoDB.
<b>ML skills</b>	tinyML, IOT, Tensorflow, LLM, NLP, DL, CNN, RNN, LSTM, VGG, Pytorch, CV, Tableau
<b>Professional Tools</b>	Git, Github, VSCode, Colab, Visual Studio, Android Studio.
<b>Transferable Skills</b>	Attention to detail, Flexibility, Communication.

CERTIFICATIONS

• Deep Learning Coursera	November 2025
• NPTEL Online Certification in Electronic Systems for Cancer Diagnosis	October 2024
• NPTEL Online Certification in Design Implementation of Human-Computer Interfaces	October 2024
• NPTEL Online Certification in Data Base Management System	September 2023
• NPTEL Online Certification in Soft Skills	October 2022