

# BALA PAVANI KOPPURAVURI

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

## EDUCATION

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

## WORK EXPERIENCE

<b>Georgia State University - MORSE Lab</b> (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.	
<b>Georgia State University</b> (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.	
<b>Coincent</b> (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	
<b>SRM University AP</b> (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.	
<b>ILP Overseas</b> (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

<b>Journal (Published - Scientific Reports)</b>	August 2025
Ch Madhu Bhushan, <b>Priya Koppuravuri</b> , Nomitha Prasanthi et al. Deploying TinyML for Energy-Efficient Object Detection and Communication in Low-Power EdgeAI Systems. ( <a href="#">Journal Link</a> )	
<b>Conference (Accepted - IEEE CINE)</b>	January 2026
Ch Madhu Bhushan, <b>Priya Koppuravuri</b> , Nomitha Prasanthi B, Firoz Gazi, Md. Muzakkir Hussain " Multi-Controller TinyML Architecture for Object Detection with Efficient Communication and Applications"	
<b>Patent (Published - Intellectual Property India)</b>	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	
<b>Patent (Published - Intellectual Property India)</b>	August 2025
Chakka Madhu Bhushan, <b>Koppuravuri Bala Pavani Lakshmi Priya</b> , 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.	
<b>Patent (Published - Intellectual Property India)</b>	October 2024
Fazal Shaik, Meka Naga Nandini Devi, Surayya Aruvanpuzha, Chakka Madhu Bhushan, <b>Koppuravuri Bala Pavani Lakshmi Priya</b> , Firoz Gazi, Mohammad Abdussami, Md. Muzakkir Hussain "ATTENDEdge: An Edge-AI-based Smart Attendance System using 3D Object Detection" - Patent Application Number: 202441077282.	
<b>Book chapter (Published)</b>	October 2025
Farha Fatma, <b>Priya Koppuravuri</b> , Pratyusha Ghanne, Firoz Gazi, Md. Muzakkir Hussain "Development of a Deep Learning model for OCT image classification for Central Serous Chorioretinopathy", In Transformative Technologies in Healthcare: A Deep Dive into AI and Machine learning, Cambridge Scholars Publishing. ( <a href="#">Book Chapter Link</a> )	

## 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

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### Lung Cancer Detection using CNN ([GitHub Link](#))

November 2024 - December 2024

- 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

- 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

- 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.

### Cancer Detection using Deep learning ([GitHub Link](#))

Sept 2023 - December 2023

- Prepared a survey on how VGG architectures are used in detection of various cancers.
- Implemented CNN VGG16 on skin cancer dataset which consists of benign and malignant tumors.
- Implemented Perceptron, ANN, CNN, VGG on various datasets.

## SKILLS

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**Programming Languages** Python, Java, Data Structures, Vue, HTML, CSS, JavaScript.

**Database** MySQL, MongoDB.

**ML skills** tinyML, IOT, Tensorflow, LLM, NLP, DL, CNN, RNN, LSTM, VGG, Pytorch, CV, Tableau

**Professional Tools** Git, Github, VSCode, Colab, Visual Studio, Android Studio.

**Transferable Skills** Attention to detail, Flexibility, Communication.

## CERTIFICATIONS

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- 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