

# Murali Krishna Maddineni

Atlanta, GA | +1 (470) 478-4859 | mmaddineni1@student.gsu.edu | LinkedIn | GitHub

## Education

### **Georgia State University**

M.Sc. Computer Science (CGPA: 3.58) Relevant Courses: Software Engineering, Database Systems, Information Security

Jan 2025 – Present

### **GITAM University, Hyderabad**

B. Tech, ECE with AIML Specialization (CGPA: 3.4) Relevant Courses: Data Structures, DBMS, Web Technologies

Aug 2020 – Apr 2024

## Experience

### **Graduate Teaching Assistant, Deep Learning**

Aug 2025 – Present

Georgia State University

- Facilitate CSC8851 delivery: lead demos and labs on VAEs, GANs, Transformers, diffusion and energy models, GNNs, and semi-supervised learning; hold office hours, guide students on debugging and tuning, grade assignments, exams, and project reports with rubric-based feedback.
- Contribute to faculty research in domain adaptation and transfer learning: literature review, experiment setup and execution, results analysis, and manuscript preparation (LaTeX/BibTeX).

### **Administrative Assistant**

May 2023 – Apr 2024

Centre for Advanced Technology and Solutions, GITAM University

- Supported centre operations while leading development of an NLQ-based internal chatbot with a structured database backend, enabling staff to retrieve academic and administrative information via natural language queries instead of manual lookups.
- Partnered with the engineering team to design and validate an agent bot for auto-generating UI components from configuration, accelerating internal dashboard and tool prototyping for faculty and staff.

## Technical Projects

### **Artificial Intelligence-Based Voice Assistant**

Aug 2023 – Apr 2024

UG Capstone (Academic Project Lead)

- Built and trained sequence models (RNN/LSTM/GRU) for intent classification using Python, PyTorch/TensorFlow (Keras), and NumPy/Librosa; achieved 92% intent detection accuracy.
- Designed voice-assistant workflow with intent handling and response generation; led project reviews and presented demo and documentation.

### **Voice-Controlled LED Automation**

May 2023 – Jul 2023

Internship Project

- Developed smart-home lighting prototype with ESP8266 NodeMCU (Wi-Fi, GPIO-based LED control) and integrated Google Assistant via IFTTT Webhooks for voice-triggered automation.
- Implemented firmware (Arduino/Embedded C) for command execution and state handling; documented setup for repeatable deployment.

## Skills

**Programming & Tools:** Python, SQL, Java, JavaScript, Git, Jira, Excel (macros), PowerPoint, HTML/CSS

**Process & PM:** Business Process Modeling (BPM), change management, requirements gathering, stakeholder communication, reporting

**Documentation & QA:** Technical documentation, debugging, LaTeX

**Other:** Status reporting, data integrity review, time management

## Leadership & Community Engagement

### **Treasurer**

Aug 2022 – Apr 2024

G-Electra (Smart Systems Club), GITAM University

- Managed full financial operations and budget oversight for the club; ensured transparency and accountability, enabling sustained funding for hands-on workshops, hackathons, member-driven initiatives and strengthening the smart systems and ECE community on campus.

### **Committee Member, Celebration and Collaboration**

2025 – Present

Georgia State University

- Advance programmatic efforts for university-wide recognition (e.g., Black History Month, International Week, Women's History Month, Latin Heritage Month), maximizing reach and impact of themed programming.

## Additional Skills & Interests

**Languages:** Fluent in English; currently learning Spanish. **Fine Arts:** Interest in drawing, painting, music and cooking.

**Interests:** Outdoor and indoor sports (cricket, badminton); video games.