

Murali Krishna Maddineni

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Education

Georgia State University

Jan 2025 – Present

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

GITAM University, Hyderabad

Aug 2020 – Apr 2024

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

Experience

Graduate Teaching Assistant, Deep Learning

Aug 2025 – Present

Georgia State University

- Facilitate CSC8851 delivery: lead demos and labs on VAEs, GANs, Transformers, diffusion models, and GNNs; hold office hours, guide students on debugging and tuning, and grade coursework 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 database backend so staff can 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, and NumPy/Librosa; achieved 92% intent detection accuracy.
- Designed voice-assistant workflow for 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 (advanced, macros), PowerPoint, HTML/CSS, Microsoft Visio

Data & AI: Data analysis, databases, dashboards, AI tools, prompt engineering

Process & PM: Business Process Modeling (BPM), process mapping, Six Sigma (basic), requirements gathering, stakeholder communication, status reporting, time management

Documentation & QA: Technical documentation, test case design, debugging, LaTeX

Leadership & Community Engagement

Treasurer

Aug 2022 – Apr 2024

G-Electra (Smart Systems Club), GITAM University

- Managed financial operations and budget oversight for the club; ensured transparency and accountability, enabling sustained funding for workshops, hackathons, and member-driven initiatives.

Committee Member, Celebration and Collaboration

May 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; partner with campus units for inclusive, cross-departmental events.

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.