

VARLA BUGGAI AH

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Professional Summary

Proactive final-year B.Tech Electronics and Communication Engineering (ECE) student with a strong academic background. Possesses a versatile technical skillset spanning software development (Python, SQL) and hardware integration (IoT, Arduino). Passionate about solving technical challenges, seeking an entry-level position in IT or Core Engineering to leverage diagnostic skills and programming expertise.

Education

B.Tech in Electronics and Communication Engineering

Siddhartha Institute of Engineering and Technology, Ibrahimpatnam, Telangana.

2022 - Present

CGPA: 8.24

Senior Secondary Education

Government Junior College, Doma, Vikarabad, Telangana.

2020 – 2022

Percentage: 90

Technical Skills

- **Languages:** Python, SQL(MySQL), C Programming
- **Hardware & IoT:** Arduino, IoT Sensors, Circuit Design, VLSI Basics
- **Tools & Platforms:** VS Code, Git, GitHub, Streamlit, Google Vertex AI

Projects

AI Chatbot Web App | Python, Streamlit, OpenAI API

[Demo](#)

- Engineered an intelligent AI chatbot using Python and Streamlit, featuring session memory for context retention.
- Integrated the backend with OpenAI API to facilitate dynamic, real-time dialogue and user support

Smart Home Energy Monitoring | IoT, Arduino, Sensors

- Developed a system to track home electricity usage in real-time using current sensors and Arduino logic.
- Enabled data-driven insights to promote energy conservation and reduce household electricity costs.

Smart Plant Watering System | IoT, Automation

- Constructed an automated irrigation system utilizing soil moisture sensors to monitor plant health.
- Programmed the Arduino controller to trigger watering automatically, optimizing water usage.

Certifications

Introduction to Generative AI | Simplilearn (2025)

- Learned prompt engineering and model fine-tuning using Google Vertex AI.

VLSI Design Flow: RTL TO GDS | NPTL (IIT Madras & IIIT Delhi) (2025)

- Completed a comprehensive 12-week curriculum on VLSI physical design, mastering the workflow from RTL synthesis to GDSII layout generation.

Data 101 | IBM Cognitive Class (2025)

- Acquired foundational understanding of Big Data concepts, the Hadoop ecosystem, and data processing workflows.

Achievements

Winner: Project Expo– Magistech, MGIT

Sep 2023

Winner: Poster Presentation – Rudrasandhaan, AVN IET

Mar 2024

Winner: Paper Presentation – Siddhahastha, SIET

Mar 2024

Winner: Poster Presentation – LORDS

Apr 2025

Winner: CineQuiz – IEEE Fusion Fest, GNIT

Aug 2025

Hobbies

- Screenplay Writing
- Scribbling