

DHRUV VISARIYA

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CAREER OBJECTIVE

Motivated engineering graduate in Electronics and Communication with a strong foundation in AIoT—combining embedded systems, IoT protocols, and Python-based automation. Seeking an opportunity to contribute to impactful projects where I can apply my technical skills, grow through hands-on learning, and support innovation in intelligent system design.

TECHNICAL SKILLS

Embedded C, Python, Flask, FastAPI, SQLite, Scikit-learn, Pandas, Streamlit, MQTT, UART/SPI, OpenCV, Git, GitHub, EasyEDA, Firebase, Signal Processing, Circuit Simulation

PROJECTS

- DSSA – YouTube Sentiment Analyzer | Python, NLP, Streamlit
 - Processed 1,000+ YouTube comments using rule-based NLP filters for sentiment scoring
 - Designed to support content creators in audience analysis; being deployed as a solo SaaS
- Synthetic Power Traces for AES Power Analysis | Python, Signal Processing, Cryptography
 - Simulated synthetic power traces using HW/HD leakage models for side-channel analysis
 - Enables secure and affordable DPA without hardware; based on foundational project DPA-AES-1
- Object Detection & Cloud Alert System | OpenCV, C++, Firebase
 - Achieved 90%+ precision in human detection using OpenCV Haar Cascades
 - Tested across 3 networks for low-latency smart surveillance applications
- Analog Modulation & Power Supply System (Combined) | Circuit Design, Simulation
 - Designed an AM signal modulator and 5V regulated DC power supply circuit
 - Tested with a 37 kHz sinusoidal carrier and 500 Hz message signal to verify modulation
- YIQAM – Formula Solver for Motion Physics | C++ (Turbo), Tokenization, CLI
 - Developed a smart command-line tool to solve kinematics problems via keyword indexing
 - Parsed, solved and saved 20+ motion problems using a CLI-based equation tokenizer
- Library Management System | Python, OOP, File Handling
 - Built a console-based tool to manage books using class-based architecture and file I/O
 - Implemented 10+ command-line operations via persistent file storage

CERTIFICATIONS & TRAINING

Internet of Things – Novitech R&D Pvt Ltd, Coimbatore (Online) | 07/2023 – 08/2023

- Learned RFID, PLCs, and ESP32-based system components; developed minor IoT project

Robotics – InternsElite, Gurgaon (Online) | 04/2023 – 05/2023

- Covered sensors, actuators, and motion control systems; built Arduino-based simulation in Tinkercad

EDUCATION

B.Tech – Electronics & Communication Engineering

University of Allahabad, Prayagraj, UP | CGPA: 8.83 | Year of Passing: 2025

PUBLICATION

Published article:

<https://www.linkedin.com/pulse/simulating-secrets-hardware-free-framework-power-aes-dhruv-visariya-esljc>

OTHER

Languages: English, Hindi

Availability: Remote / Hybrid / Bangalore / Hyderabad / Delhi NCR

Preferred Roles: Embedded Intern, Python Dev, IoT R&D, Tech Research