Sahukari Sai Keerti

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Career Objective —

Third-year EEE student at NIT Andhra Pradesh (CGPA: 9.27), IEEE member, with hands-on experience in microcontrollers. Passionate about Machine Learning, Web Development and Renewable Energy. Seeking an internship to apply technical skills and contribute to innovative engineering solutions.

Technical Competencies

- **Programming:** C, C++, Java, Python
- **Web Development:** HTML, CSS, JavaScript, TypeScript, Node.js, Express.js
- **Databases:** PostgreSQL, MongoDB
- **Tools:** MATLAB, STM32, Arduino IDE
- **Sensors and Microcontrollers:** Experienced in interfacing with various sensors and microcontrollers

Recent Experience

Face Recognition using Deep Learning **Research Intern, NIT Warangal**

Developed a face recognition system using feature extraction techniques

- Implemented facial detection and recognition algorithms using OpenCV and TensorFlow
- Achieved an accuracy rate of 93% in facial recognition tests
- Technologies Used: Python, OpenCV, TensorFlow, Keras

Python Developer **Intern, Codespeedy**

Developed GUI-based applications using Tkinter

- Created a login page using Tkinter
- Built an email validation interface
- Integrated basic biometric functionality into the Tkinter application

Education

National Institute of Technology, Andhra Pradesh **CGPA: 9.27**

B.Tech in Electrical and Electronics Engineering (2022–2026)

Minor: Software Engineering (2022–2026)

Sri Chaitanya School **CGPA: 10**

Class -10(2019–2020)

Sri Chaitanya College **CGPA: 9.5**

Class-1112(2020–2022)

Personal Projects

Smart Heart Monitoring System

- Developed a real-time heart monitoring system to predict the probability of heart stroke
- Achieved 96% accuracy using logistic regression
- Integrated both hardware and software components

Land Segmentation of Satellite Images

- Built a semantic segmentation model using SegFormer B3 (PyTorch) for vegetation and land cover classification
- Utilized DeepGlobe dataset and Sentinel-2 imagery focused on Andhra Pradesh
- Applied transformer-based architecture for accurate segmentation of multispectral images

Traffic Monitoring System

- Developed a closed-loop traffic signal system to reduce wait time and emissions
- Designed for adaptive control and eco-friendly operation

NIT-AP EEE Department Website **(ongoing)**

- Designing and developing the official website for the EEE Department at NIT Andhra Pradesh
- Built with HTML, CSS, and JavaScript; includes pages like Home, About, Faculty, Research, Contact, and Association
- Implemented a dynamic PDF viewer and profile highlights for department heads in the Association section

Certifications

- Fundamentals of Deep Learning From NVIDIA.
- Building Former based NLP Applications From NVIDIA.
- Completed NPTEL-certified course on Internet of Things (IoT)