Somesh Komarellu

◉ Hyderabad ✉ someshkomarellu66@gmail.com ✆ 9347824139 in somesh komarellu ⌗ Somesh-Komarellu

Education

Institute Of Aeronautical Engineering, Hyderabad Telangana	2022 – *Expected* 2026
Btech in Electronics and Communication Engineering	CGPA:8.03/10
Vijaya Sai Junior College, Bodhan, Telangana	2020 – 2022
Senior secondary education in MPC	Marks: 960
Matrusri High School, Bodhan, Telangana	2020
Secondary School education	cgpa: 10.0

Experience

NSIC-Data Science Intern — *Remote*
NSIC — *July 2023 – July 2023*

- Worked on large, multi-dimensional data sets, applying data science tools and techniques to derive insights and support data-driven decision-making. **Technologies:** NumPy, Pandas, Matplotlib.
- **Key Contributions:** Enhanced data manipulation and analysis with NumPy and Pandas. Created interactive visualizations using Matplotlib to present insights effectively.

Embedded System Developer Intern — *Remote*
Microchip — *April 2024 – June 2024*

- Designed IoT-enabled applications using embedded C. Integrated sensors and implemented UART communication for efficient data transfer. **Technologies**: PIC16F877A, MPLAB X IDE, MPLAB Code Configurator (MCC), DHT11 Sensors, LCD Display, UART Communication.
- **Key Contributions:** Designed IoT-enabled applications using embedded C, significantly advancing automation capabilities. Implemented sensor integration and UART communication for efficient data transfer.

Skills

- **Programming Languages:** Python, C, Java, SQL, Verilog, VHDL.
- **Design Skills** UX Design, User Research, Wireframing, Prototyping.
- **Embedded Systems and Hardware Design:** MATLAB, Vivado, Arduino, LabVIEW.
- **Libraries/Frameworks:** Scikit, NLTK, TensorFlow, Keras.
- **Tools and Technologies:** Git, Jupyter Notebook, Anaconda, VS Code, MySQl, Figma, Adobexd, sketch
- **Soft Skills:** Problem solving, Teamwork, Critical thinking, Research.

Projects

Face Recognition-Based Attendance System (Image Processing) — *github* ↗

- Developed an automated attendance system that captures and identifies faces in real-time using a webcam, matches them with a pre-stored database, and marks attendance.
- **Technologies:** Python, OpenCV, Haar Cascades, NumPy, SQLite, Tkinter

Automatic Room Temperature Controller (Arduino) — *github* ↗

- Designed an IoT-based intelligent room temperature controller, showcasing skills in sensor integration, signal routing. Highlighted understanding of hardware-software interfacing and efficient power distribution.
- **Technologies:** DHT11, Arduino, Python, C/C++

Certifications

Digital system Design: NPTEL

Web Development intern: SystemTron

UIUX design: e-dam

Achievements

- Participated in the 100daysoftech Challenge, completing 100 days of UI/UX training.
- Completed a job simulation on Digital Design UX for BP through Forage, creating prototypes for the EV industry.

Coding platforms

Leetcode ↗ k_somesh

GeeksforGeeks ↗ *someshkomvnle*

Hackerrank ↗ *@someshkomarellu*