**NEHA SANDIP GOSAVI**

**EXPERIENCE SUMMARY**

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**Experience Level**: 8 Months

**Now:** Mirafra Software Technologies Pvt Ltd. DEC 2024 – Present

**Past:**

* Indian Institute of Embedded System MAY 2024 – NOV 2024

**Education:**

* BTECH Electronics and Tele-communication, GCEK 2024

**Technical Skills:**

* Programming Languages: C, C++,Embedded C, Python.
* Controllers: Arduino Uno,8051, ESP8266
* Raspberry Pi
* Operating System: Windows
* Version Control: GIT, GitHub
* Tools: MATLAB, Keil Vision, Pycharm
* Peripherals: Timer, Interrupt, ADC
* Protocols: UART, SPI, I2C, CAN

**PROJECT EXPERIENCE**

**Institute Name** – **IIES, Bangalore**

**Project: Automated Temperature Monitoring System**

**Role: Graduate Engineer Trainee**

**Description:**

* Developed an Automated Temperature Monitoring System with a Graphical User Interface (GUI) using Python and Tkinter to simulate temperature sensor data and monitor environmental conditions in real time.
* Implemented threshold-based alerts that trigger automatic email notifications when temperature exceeds predefined safe limits, using Gmail's SMTP protocol.
* Designed and built a user-friendly Tkinter GUI to display real-time temperature data and send visual alerts when the temperature deviates from safe thresholds.
* Logged temperature data in a text file with timestamps, allowing for historical analysis and troubleshooting.
* Ensured automation by setting up regular temperature updates every 5 seconds, without manual intervention, for continuous system operation.
* Successfully integrated email alert functionality to notify users of abnormal temperatures, enabling rapid response in critical conditions.

**PERSONAL PROJECTS**

**• An IOT based ICU patient monitoring system using ESP8266:**

The main objective of the project is continuous monitoring of the ICU patients. IOT enabled patient monitoring system collect data from ESP8266 and sends to the BLYNK IOT application where the data can be accessible by the medical practitioners in the fraction of seconds.

**• Accident Prevention for four wheelers using Raspberry Pi:**

Major accidents are caused due to overtaking to avoid them we utilize advanced cameras aims to enhance safety by providing real-time images of the road ahead using Pi-camera and ultrasonic sensor interfaced with Raspberry pi, empowering trailing vehicles to assess passing potential and make informed Driving Decisions.