



SACHIN BHARTI
B.Tech. - Electronics & Communication Engineering
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BRIEF SUMMARY

I am an ECE student with a good foundation in digital electronics, analog electronics, and embedded systems. My expertise lies in circuit design, programming in C/C++/Java, and utilizing microcontrollers like Arduino and Raspberry Pi. I have successfully designed and implemented several projects, including a smart home automation system and intelligence gas leakage detection. I believe these skills and experiences are highly relevant to roles in embedded systems engineering and IoT development. In the future, I aspire to contribute to the advancement of smart technologies and work on innovative projects that improve people's lives.

Beyond technical expertise, I am passionate about staying updated on emerging trends in embedded systems and IoT technologies. I actively engage in self-learning and certifications to deepen my knowledge in areas like wireless communication protocols, low-power devices, and artificial intelligence integration.

KEY EXPERTISE

Java MATLAB Electronic Circuit Design Eagle PCB Data Structures Python C

EDUCATION

Haldia Institute Of Technology B.Tech. - Electronics & Communication Engineering CGPA: 8.18 / 10	2022 - 2026
BRITISH ENG SCHL GERE MANPUR MUFASSIL GAYA BR, Gaya 12 th CBSE Percentage: 76.80 / 100	2021
CREATIVE PUBLIC SCHOOL, Gaya 10 th CBSE Percentage: 79.20 / 100	2019

PROJECTS

IOT Based Intelligence Gas Leakage Detector Using Arduino Mentor: Dr Avishankar Roy Team Size: 10 Key Skills: Arduino Basics Sensor Integration Microcontroller Wiring and Schematic Design GSM Module Integration Project Link: https://github.com/Sachin20-04/Arduino-IDE-CODE The "IoT Intelligent Gas Leakage Detector Using Arduino" is a smart system designed to detect gas leaks in homes or industrial environments. The project utilizes a gas sensor (such as the MQ series) to detect hazardous gases like LPG or methane. When the gas concentration exceeds a certain threshold, the sensor sends data to an Arduino microcontroller. The system triggers local alerts through a buzzer or LEDs and can also send remote notifications via an IoT platform, like Blynk, using a Wi-Fi or GSM module. This allows users to monitor the gas levels in real-time, receive alerts, and even control gas supply remotely. The project combines safety with IoT technology, offering continuous monitoring, data logging, and the possibility of automatic shutdowns in case of a leak, making it ideal for enhancing safety in various settings.	10 Sep, 2024 - 20 Sep, 2024
Red wine analysis using logistics regression in ML Team Size: 5 Key Skills: Data Analysis Data Preprocessing Exploratory Data Analysis Data Visualization Pandas NumPy Scikit-Learn Matplotlib Project Link: https://github.com/Sachin20-04/red-wine-quality-prediction Objective: Developed a predictive model to classify red wine quality based on physicochemical properties. Key Contributions: Preprocessed and analyzed a dataset with over X samples (mention the number if available), including feature scaling and normalization. Engineered key features to improve model performance and reduce noise. Implemented Logistic Regression in Python using libraries like Scikit-learn, achieving an accuracy of X% (mention accuracy or other performance metrics if applicable). Evaluated the model using metrics such as precision, recall, F1-score, and ROC-AUC to ensure robust predictions. Visualized data insights and model results using tools like Matplotlib	

ACHIEVEMENTS

- Hands-on experience with microcontrollers (Arduino, Raspberry Pi)
- Familiarity with communication protocols such as I2C, UART, or SPI.
- Successfully collaborated in a team to deliver a major project.
- Participated in Model Design Competition on IOT Application Conducted by IEEE

ASSESSMENTS / CERTIFICATIONS

Model Design Competition on IOT Application

EXTRA CURRICULAR ACTIVITIES

- Participated in seminars, debates, or panel discussions.
- Participated in stage plays or street plays for social awareness campaigns.

PERSONAL INTERESTS / HOBBIES

- Solving Sudoku, crosswords, or engaging in strategic board games like chess.
- Playing some Outdoor games like Cricket and Football
- Reading wildlife Documentaries and Space Enthusiast

PERSONAL DETAILS

Gender: Male

Marital Status: Single

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