

SATYAM SACHAN

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EDUCATION

Bachelor of Technology in Electronics and Communication Engineering || 65% 12/2020 – present
Pranveer Singh Institute of Technology, Kanpur

Higher Secondary Education || 78% 03/2019 – 03/2020
O.S.V.N. Inter College Jawahar Nagar

EXPERIENCE

Web developer Intern | Bharat Intern Internship | Remote 📧 08/2023 – 10/2023

- Utilized HTML, CSS, and JavaScript to ensure a smooth user experience.
- Languages- HTML, CSS & Java Script

PROJECTS

RFID Based Shopping Trolley with google sheet and app 12/2023 – 05/2024

- **Technology Stack** : IOT, Arduino Nano
- **Role** : Backend
- Implemented RFID technology to automatically track items in shopping trolleys; enhanced efficiency by 40% and reduced checkout times by 30%, creating an optimized shopping experience for customers
- Accompanied by a mobile app that allows users to view their shopping list, track their spending, and receive personalized recommendations based on their purchase history.

Brain Tumor Detection by Using Image Segmentation Process 09/2023 – 01/2024

- **Technology Stack** : Python, NumPy, Keras, HTML, CSS, Java Script, Tensorflow
- **Role** : Frontend & Backend
- Created a cutting-edge brain tumor detection tool employing TensorFlow, Python, and Keras for image segmentation; boosted diagnostic accuracy to 88%, significantly improving patient prognosis and clinical decision-making efficiency by 65%
- Produced reliable binary outputs indicating the presence or absence of brain tumors, demonstrating proficiency in deep learning and medical image analysis.

Password Protected Door 09/2022 – 12/2022

- **Technology Stack** : IOT, Arduino Uno
- **Role** : PCB design
- Engineered a door security system using Arduino Uno, Servo motor, LCD featuring password protection and audible alerts for unauthorized access attempts.
- Showcased expertise in embedded systems and security protocols by implementing a robust and reliable security solution.

Fire & Smoke Alarm 07/2021 – 11/2021

- **Technology Stack** : IOT, Arduino Uno
- **Role** : Circuit Design & Component Assembler
- Designed and implemented a sophisticated fire and smoke alarm system utilizing Arduino Uno, Smoke sensors, Temperature sensor and Wi-Fi module.
- Integrated GPS tracking to enhance emergency response and provide real-time location data during incidents.
- Demonstrated advanced skills in sensor integration and emergency response systems.

SKILLS

Programming Languages: C++, Python, Basic Java

Microcontroller and Microprocessor Knowledge: VxWorks

Embedded Systems Design: Circuit design and PCB layout CAD tools, Arduino

Firmware Development: Writing, testing, and debugging firmware

Software : Git, MATLAB, Simulink

Networking and Communication: TCP/IP, MQTT

Soft Skills: Problem-Solving, Troubleshoot, Communication, Project Management, Time management, , Organizational skills

CERTIFICATES

- Introduction to Android Mobile Application Development
- Introduction to cloud
- SQL Basic Certification (HackerRank)
- Build an IoT Blockchain Network for a Supply Chain
- Full Stack Web Development
- Designing a Low Fidelity Prototype in Figma

ACHIEVEMENTS

- 200+ Problem solved in online Platform
- 4 Star on Hackerrank Platform
- Achieved multiple Badges from various Platform