

SHIKHAR RAWAT

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Education

Shree LR Tiwari College of Engineering
Bachelor of Engineering in Information Technology

Jan 2022 – current
Mumbai

Mithibai College
HSC board

Sep. 2019 – May 2021
Vile Parle(W), Mumbai

RBK School
ICSE board

2018– 2019
Mira Bhayandar, Mumbai

Relevant Coursework

- Data Structures
- Software Methodology
- Data Science
- Database Management
- Artificial Intelligence
- Internet Technology
- Systems Programming
- IoT
- AWS

Experience/Internships

Robokart

Robotics and IoT Engineer

Dec 2024- Jan 2025 / March -April 2025
Gujrat/Maharashtra

- Designed and implemented IoT solutions using **Arduino and ESP8266** for real-time sensor data acquisition and wireless communication.
- Developed **smoke detection** and **water leakage detection systems** with cloud-based monitoring and alert notifications.
- Integrated IoT devices with **Wi-Fi/Bluetooth networking** and cloud platforms for real-time data visualization and automation.

Projects

Name | Electricity Consumption Tracker

- Using Django, Python, HTML, CSS, Bootstrap, JavaScript
- Developed a web-based application using Python (Django), HTML, CSS, and JavaScript to track daily and monthly electricity usage.
- Implemented automated unit calculation, tariff-based bill estimation, and interactive consumption charts using Chart.js.

Name — Exercise Machine with IoT Oximeter & LED

- Using Python (Django), HTML, CSS, Bootstrap, JavaScript, Chart.js, ESP8266 (NodeMCU), MAX3010x pulse-ox sensor, and simple LED feedback.
- Implemented interactive Chart.js dashboards, workout start/stop and session summaries, LED zone feedback on the device for safe/target ranges, alerting for abnormal vitals, and CSV export of session data.
- Developed a full-stack exercise machine monitoring and control system: ESP8266 reads real-time heart rate SpO from the oximeter and sends data to a Python backend, which streams live updates to the web UI and stores per-session history.

Technical Skills

Languages: Python, C, HTML/CSS, ,SQL,Django

Developer Tools: VS Code, , AWS

Technologies/Frameworks: Linux, , GitHub, , Git

Leadership / Extracurricular

Nvidia RTX AI PC Day

19 and 20th Oct 2024

Volunteer

- * Showing how AI-powered PCs are revolutionizing industries by **offering exceptional performance** in tasks such as content creation, data analysis, and game development.
- * Showcasing a variety of NVIDIA graphics cards and their **capabilities to attendees**. Assisted in demonstrating **GPU technologies**, explaining key features such as ray tracing, AI acceleration, and gaming performance, and **engaging with visitors to provide insights** on selecting the right graphics card for different **applications**, including **gaming, content creation, and AI workloads**