

# BHAVYA PANDE

Nagpur, India

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## Professional Summary

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Motivated Electronics and Telecommunication Engineering student with hands-on industrial experience in Industrial IoT, Energy Management Systems (EMS), and real-time monitoring solutions. Skilled in industrial communication protocols, dashboard development, telemetry systems, and cloud-based monitoring platforms. Experienced in project implementation, troubleshooting, data visualization, and industrial automation with strong analytical and problem-solving abilities.

## Education

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### B.Tech – Electronics and Telecommunication Engineering

G. H. Raisoni College of Engineering, Nagpur

2022 – 2026 — **CGPA: 7.38**

### HSC – St. Paul Jr. College, Nagpur

2021 — **80.33%**

## Internship Experience

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### Project Engineer Intern, SenseLive Technologies, Nagpur

Jan 2026 – Present

- Worked on Industrial IoT and Energy Management System (EMS) projects involving real-time monitoring and data acquisition.
- Configured and deployed industrial communication and telemetry devices for remote monitoring applications.
- Integrated industrial devices using Modbus RS485 communication protocols.
- Performed Modbus register mapping, parameter configuration, troubleshooting, and live device testing for industrial deployments.
- Developed dashboards and visualization workflows using Node-RED and ThingsBoard.
- Worked on cloud-based telemetry systems for collecting, processing, and visualizing industrial energy data.
- Assisted in commissioning, testing, and documentation of EMS and Solar Monitoring systems.

## Technical Skills

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- **Industrial IoT:** Telemetry Systems, Remote Monitoring, Industrial Automation
- **Protocols & Communication:** Modbus RTU, RS485, TCP/IP, 4G Communication
- **EMS & Monitoring:** Energy Management Systems, Solar Monitoring Systems
- **Software & Platforms:** Node-RED, ThingsBoard, MATLAB, Arduino IDE
- **Programming:** Python, Java, C++, SQL
- **Data & Analytics:** Excel, Pivot Tables, Dashboard Visualization, Reporting
- **Hardware:** Sensors, Embedded Systems, Industrial Monitoring Devices

## Industrial Projects

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### Solar Management System

2026

- Worked on implementation of an IoT-based Solar Monitoring and Management System for industrial solar infrastructure.
- Integrated inverter and field device data using industrial communication protocols.
- Configured parameter mapping and enabled real-time monitoring through cloud dashboards.
- Developed visualization dashboards for tracking energy generation, system performance, and inverter status.
- Assisted in troubleshooting communication issues and validating telemetry data.

### Energy Management System Project

2026

- Implemented Energy Management System (EMS) for monitoring industrial energy consumption across multiple devices.
- Performed parameter mapping, communication setup, and live testing for EMS deployments.
- Built dashboards for real-time electrical parameters such as Voltage, Current, Power, Frequency, and Energy Consumption.
- Improved centralized monitoring and reporting efficiency through automated cloud-based data acquisition.

- Assisted in deployment, validation, and troubleshooting of industrial monitoring systems.

**Academic Projects**

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**Smart IoT Agriculture Monitoring System** 2025

- Collected and analyzed real-time sensor data including soil moisture and temperature.
- Automated data collection and cloud synchronization using Arduino, NodeMCU, Python, and Firebase.
- Performed trend analysis and monitoring using Excel and MATLAB.

**Hotel Management System** 2024

- Designed and managed a SQL-based system handling booking and customer records.
- Wrote SQL queries for reporting, validation, and structured data management.

**Firefighting Robot** 2024

- Developed automated fire detection logic using real-time sensor inputs.
- Improved response reliability by reducing false trigger conditions.

**ADAS Feature for Two-Wheelers (Smart India Hackathon)** 2024

- Worked on sensor-based safety monitoring and alert mechanisms.
- Collaborated within a team environment to align technical functionality with project objectives.

**Leadership & Achievements**

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**Cultural Head – Student Representative Council (GHRCE)** 2024 – Present

- Led and coordinated multiple college events involving large student participation.
- Managed event planning, execution timelines, and team coordination activities.

**Limca Book of Records Participation** 2024

- Participated in a 12-hour continuous public speaking event recognized by Limca Book of Records.

**Certifications**

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- C, C++, Java & Advanced Java – Binary Brains (2024)
- Smart India Hackathon – Participation & Volunteering (2024)