



# SHIVAM HARSH



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Bengaluru, India



Shivam Harsh



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Electronics and Communication Engineering student with a strong foundation in hardware and software development. Skilled in full-stack web development, embedded systems, and IoT technologies. Demonstrated ability to build innovative, real-world solutions through hands-on projects, microcontroller programming, and real-time communication. Seeking to advance expertise in AI, embedded systems, and IoT.

## EDUCATION

### Bangalore Institute of Technology

Bachelor of Engineering (ECE) | CGPA : 9.0125

2022 – 2026

Bengaluru, India

### Dr. G.L. Dutta DAV Public School

AISSCE | Grade: 79.4%

2020 – 2022

Patna, India

### New Era High School

AISSE | Grade: 96.6%

2008 – 2020

Patna, India

## SKILLS

**Languages:** Java | C++ | Python | C | Verilog | ALP

**Web Development:** HTML | CSS | JavaScript | React | TailwindCSS | Node.js

**Databases:** MySQL | MongoDB

**Tools & Frameworks:** MATLAB | TailwindCSS | Bootstrap | Power BI

**Hardware & Embedded Systems:** Verilog and HDL | Microcontroller Programming | PCB Design

## PROJECTS

### Disaster Management System

09/2024 – present

A multi-platform system with AI-driven prediction, real-time alerts, chatbot, and multilingual support, featuring SOS requests and interactive maps.

- **Tech:** Web (React, Node.js, HTML, CSS, JavaScript), Mobile (Flutter), AI/ML (Python), DB (MongoDB, MySQL), Maps (Google Maps API), Alerts (Firebase, Twilio)

### Smart Fire Detection System for Agriculture:

08/2024 – 09/2024

A solution for fire risk detection in agriculture, with AI-driven prediction, automated sprinklers, and real-time alerts.

- **Tech:** Web (Node.js, HTML, CSS, JS), Mobile (Flutter), AI/ML (Python), Sensors, Sprinkler System, Node Hub, Data Communication (HC-12, A9G), DB (MongoDB)

### Tourism Safety Device

08/2024 – 09/2024

A compact GPS tracker and audio surveillance tool designed to enhance tourist safety, providing real-time location tracking and remote audio monitoring.

- **Tech:** Hardware (Seeed Studio XIAO ESP32C3, A9G GSM/GPRS+GPS/BDS), Custom PCB, 3.7V battery

## CERTIFICATES

**Programming in Modern C++** – IIT Kharagpur (NPTEL) | **Programming in Java** – IIT Kharagpur (NPTEL) |

**Strategy and Leadership** – IISC | **Full Stack Web Development** – YHills | **Power BI** – CoursePe

## EXTRAS

**Interests:** Chess, Cricket, Programming

**Languages:** English, Hindi, Bhojpuri, Maithili