

PRATIK HALNOR

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EDUCATION

Sanjivani University, Ahilyanagar, Maharashtra

BTech Computer Science Engineering specialisation in Artificial Intelligence and Machine Learning | CGPA : 7.12/10
Relevant Courses: Data Structures and Algorithms (DSA & DAA), Database Management Systems (DBMS),
Operating Systems (OS)

August 2024 - May 2027

Sanjivani K.B.P Polytechnic Ahilyanagar, Maharashtra | Diploma in Mechatronics

August 2020 - Jan 2024

Ashok English Medium School, Ahilyanagar, Maharashtra — (SSC)

Class X - Percentage : 67.00 %

March 2020

EXPERIENCE

Diploma Engineer Larsen & Toubro Precision Engineering Systems -Pune, Maharashtra

June 2023 - June 2024

- Completed 1-year apprenticeship in the Defence sector, contributing to the integration, testing, and validation of critical electronic systems for force deployment.
- Assisted in assembling defence equipment while following strict standards for precision and reliability in a controlled environment..
- Contributed significantly to assembling and testing over 12 ASW launcher systems. Ensured they were 100% operational and met strict naval warfare standards.

AI & Mechatronics Intern Techelligence - Pune, Maharashtra

June 2025 - July 2025

- I developed and built a 4WD robotic chassis that can be operated remotely. It uses Arduino, ESP32, and Raspberry Pi for real-time motor control and sensor integration.
- Configured Raspberry Pi with Ubuntu OS and SSH, enabling remote control that reduced testing time by 60% and allowed operation from 30m+ distance.
- Programmed microcontroller firmware in C/C++ for motor driver control. Implemented wireless command protocols for chassis navigation.

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, JavaScript

AI/ML & Data Science: Scikit-learn, Pandas, NumPy, Matplotlib, IBM Watson, OpenCV, YOLOv8

Frameworks & Libraries: Flask, ReactJS, Angular

Databases & Cloud: PostgreSQL, MongoDB

Tools & Platforms: Git, GitHub, Linux/Unix CLI, Docker, Power BI, Blynk IoT

Languages: English (Fluent), Marathi (Native), German (Basic)

PROJECTS

Finance & Compliance Data Analysis Project: GST Anomaly Detection System

November 2025

- Technologies Used : Python, scikit-learn (Random Forest), matplotlib.
- Implemented an ML pipeline to find fraudulent GST filings.
- Applied Random Forest and analyzed feature importance to find key GST fraud indicators such as ITC Mismatch Rate and Supplier Concentration.

[Github Repository Link](#)

Inventory Portal: Sai Sundha Steel Traders Catalog

March 2025

- Technologies Used : HTML, CSS, Javascript, Chatbase (AI Chatbot).
- Integrated AI-powered chatbot through Chatbase iFrame to give real-time price updates and product information.
- Created a product catalog webpage for customers that displays steel, cement, and construction materials along with detailed specifications and pricing.

[Website Link](#)

IoT Environmental Monitoring: Smart Dust Suppression System

January 2025

- Technologies Used : GPY210 Particulate Matter Sensor, ESP32 Microcontroller, Blynk IoT Platform.
- Enhanced a dust control system that turns on water foggers when the GPY210 sensor detects dust levels above safety limits.

[Demo Link](#)

CERTIFICATIONS & ACHIEVEMENTS

- Best Paper Award** – International Conference on Sustainable Innovation in Engineering, Science & Management (2026)
“Lightweight Real-Time Footfall Counting Using CPU-Optimized YOLOv8 for Resource-Constrained Environments.
Top 8 among 100+ papers | Focused on low computational expenses.
- IBM Watson Studio** – Built & deployed ML models via Auto AI data pipeline automation
- Predictive Modeling (IBM SPSS)** – Statistical modeling for business intelligence
- IBM DevOps Fundamentals** – CI/CD & model deployment in cloud workflows