

# JAYAM PANDIT

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Portfolio

## Education

Indian Institute of Information Technology Bhagalpur

December. 2021 – July 2025

Bachelor of Technology in Mechatronics and Automation Engineering

Bhagalpur, Bihar

CGPA: 7.3 (Absolute Grading, Highest: 8.5)

## Relevant Coursework

- Data Structures
- Machine Learning
- Database Management System
- OOPs
- Artificial Intelligence
- Operating system

## Experience

### Dash Dynamics

December 2024 - Present

Software Developer and Machine Learning Intern

- Developed a **charger dashboard** using **Next.js, React, Node.js, MongoDB, Express, and Firebase**, delivering a **scalable solution** with seamless **UI/UX** in collaboration with the **IoT and design teams**.
- Managed and maintained the company's **hosted website**, building a fully functional **news and blog section** with **React**.
- Resolved **foreign object detection** and **misalignment** issues in **wireless EV chargers** by applying **computer vision, machine learning algorithms**.

## Projects

### EV Charger Dashboard | MERN, Next.js, Tailwind CSS, Firebase, websocket, opencv December 2024 – Present

- Developed a **EV Charger Dashboard** enabling wireless real-time EV charging with interactive UI animations.
- Utilized **Next.js React.js, Node.js, Firebase, and MongoDB**, improving backend efficiency by **30%** through optimized database queries.
- Integrated **websocket** protocol for real-time communication with wireless chargers, reducing latency in status updates by **20%**
- Integrated **computer vision** algorithms to detect and respond to **FOD and misalignment**, automatically stopping the charging process.

### Product Size & Weight Detection from Images | Qwen2, Gemini API, Ollama

March 2024 – Present

- **Developed** a solution to automatically detect and extract **size and weight** attributes from **product images for e-commerce platforms**, improving product listing efficiency by **30%** and reducing manual entry time by **40%**.
- Applied using a Qwen-2-VL model, Gemini API, and Ollama, with advanced tuning strategies such as Population-Based Training and Transfer (PEFT), resulting in 25% faster model convergence and 15% improved accuracy for optimization
- Solved the challenge of manual data entry, leading to a **25% increase** in listing accuracy and a **20% reduction** in processing time.
- Designed and executed an automated pipeline to extract product attributes from images, eliminating manual data entry and achieving a **25% improvement** in listing accuracy and a **20% reduction** in processing time.

## Skills

**Languages:** C++, Python, JavaScript, SQL, Typescript, SQL

**Coding Profiles:** Leetcode

**Developer Tools:** VS Code, Git, GitHub, Docker, Postman

**Libraries/Frameworks:** MongoDB, Express.js, ReactJS, Node.js

**AI/ML :** TensorFlow, Computer vision (OpenCV), EDA, LangChain, AutoGen, Model fine-tuning, Hugging Face

## Achievements

- Secured **7th rank** in the **Intra Smart India Hackathon** [Certificate](#)
- Achieved **Rank 272** in the **Amazon ML Challenge 2024** [Certificate](#)
- Contributor in **HacktoberFest**, and **MEMGPT** as open-source projects [Certificate](#)
- Ranked among the top 11 out of 4 lakh participants in the **Flipkart Grid** [Certificate](#)
- Received **O Grade** in the **Society Academics Internship**, recognizing excellence in contributions and knowledge application.

## Leadership / Extracurricular

**Secretary, Entrepreneurship Cell IIITBH (June 2023 – Dec 2023):** Led **50+ events** and promoted entrepreneurship, leading to a **72% increase** in campus startups.

**Lead, Sponsorship Team Enyugma Fest, IIITBH (June 2023 – Dec 2023):** Secured **INR 1 lakh+** in sponsorships, enhancing event engagement by **25%**.