





Dhanurdhar Sharma

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Profile

A Computer Science Engineering student with hands on experience in Web Development, Machine Learning and IOT. Seeking an internship opportunity to apply my technical and analytical skills to solve real-world problems and contribute to impactful projects .

Education

Bachelor of Technology in Computer Science and Engineering
[University of Engineering and Management, Jaipur](#)

2022 – Present
CGPA: 8.85 (Till last semester)

Skills

- **Programming Languages:** Python, C, JavaScript, PHP
- **Machine Learning and AI:** Machine Learning Algorithms, Numpy, Pandas, Scikit-learn, YOLO, OpenCV, SQL
- **Web Development:** HTML, CSS, Tailwind CSS
- **Tools & Platform:** Git, GitHub, VS Code, Arduino IDE, Jupyter Notebook, Google Colab
- **IoT & Embedded Systems:** Arduino, Raspberry Pi, ESP32, Sensors, GPIO Programming

Professional Experience

Inventory Management System Developer *Freelancer*

Rajasthan, India *Sep 2024*

- Designed and developed a custom inventory management system for a local cafe.
- Built using HTML, Tailwind CSS, JavaScript, PHP and MySQL.
- Enabled real-time stock tracking and item categorization, improving inventory accuracy and reducing manual workload.

Projects

- **Dynamic Traffic Light System**

Developed a hardware-driven traffic light system using Raspberry Pi 5 and YOLOv8. Adjusts green light duration based on real-time vehicle detection and congestion levels.

Technologies: Raspberry Pi 5, Python, OpenCV, YOLOv8, Roboflow

- **Hexabot (6-Legged Walking Robot)**

A work-in-progress hexapod robot designed for autonomous indoor navigation and voice-controlled movement. Currently focused on servo-based leg coordination and environment sensing. Future plans include SLAM-based mapping and obstacle avoidance.

Technologies: ESP32, SG90 Servos, Raspberry Pi 5(Planned), Python

Online Courses & Certifications

- Python for Data Science (Feb. 2024) - [NPTEL](#)
- The Joy of Computing using Python (Apr. 2023) - [NPTEL](#)

Achievements

- Secured **6th rank** in the First Semester of B.Tech in Computer Science and Engineering.
- Secured **9th rank** in the Second Semester of B.Tech in Computer Science and Engineering.
- Secured **10th rank** in the Fifth Semester of B.Tech in Computer Science and Engineering.