DHANURDHAR SHARMA

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SUMMARY

Computer Science Engineering student skilled in Python, C++, JavaScript, HTML, CSS, SQL, and IoT development. Experienced in web development, machine learning, and embedded systems. Looking for an opportunity to apply technical and analytical skills to software engineering or data science projects.

EDUCATION

Senior Seondary (12th) - RBSE **Apr 2021 - May 2022**

Maheshwari Sr. Sec. School, Tilak Nagar, Jaipur

Bachelor of Technology in CSE **Jul 2022 - Jul 2026**

University of Engineering and Management, Jaipur CGPA: 8.85 (till last semester)

SKILLS

- **Programming Languages :** Python, C/C++.
- **Machine Learning & AI:** ML Algorithms, NumPy, Pandas, Scikit-learn, YOLO, OpenCV,SQL
- **Web Development:** HTML, CSS, Tailwind CSS
- **Tools & Platforms:** Git, GitHub, VS Code, Arduino IDE, Jupyter Notebook, Google Colab
- **IoT & Embedded Systems:** Arduino, Raspberry Pi, ESP32, Sensors

EXPERIENCE

AIML Intern, Luxury in Taste **(Remote) Jul 2025 - Aug 2025**

- Built an image-based product authentication system for luxury fashion items using deep learning.
- Applied data augmentation for limited datasets (Balenciaga, Jimmy Choo, etc.).
- Collaborated with AI and web teams to deploy the model into a responsive dashboard.

PROJECTS

Dynamic Traffic Light System **Jan 2025 - May 2025**

- Developed a hardware-based traffic light control system leveraging Raspberry Pi 5 combined with YOLOv8 for real-time vehicle detection and traffic congestion management.
- Implemented dynamic green light timing algorithms using Python and OpenCV to optimize traffic flow based on live video analytics.
- Integrated Roboflow for efficient dataset management and annotation to enhance detection accuracy.

Hexabot (6-Legged Walking Robot) **Feb 2025 - Present**

- Designed and built an autonomous hexapod robot using ESP32 microcontroller and servos for precise leg articulation aimed at indoor navigation and environmental sensing.
- Planning integration of SLAM (Simultaneous Localization and Mapping) for advanced mapping and obstacle avoidance, leveraging Raspberry Pi 5 for enhanced processing capabilities.

- Planning to enable expressive robot behaviors such as waving “hello,” performing push-ups, and other dynamic motions for enhanced human-robot interaction.

ONLINE COURSES & CERTIFICATIONS

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

ADDITIONAL INFORMATION

- Achieved 6th rank among Computer Science Engineering students in the 1st semester of B.Tech.
- Secured 9th rank in the 2nd semester, demonstrating consistent academic performance.
- Attained 10th rank in the 5th semester, reflecting strong subject mastery in Computer Science.