Aryan Dwivedi

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Summary

"Computer Science undergrad with a strong track record in project-based learning, problem-solving (300+ LeetCode), and building ML/IoT systems. Passionate about practical application of tech to solve real-world problems."

Education

Pranveer Singh Institute of Technology, Kanpur   *2022 – 2026*
B.Tech in Computer Science Engineering

Projects

ParkTrackr — Automated Parking Allocation using Plate Recognition   *Present*

- Developed Automated Parking System using Tesseract OCR for image recognition and OpenCV-based ML model for number plate recognition.
- Automated parking allocation and billing system.
- Integrated SMS delivery of parking bill with entry/exit duration and fare to customer's phone.
- Utilized MySQL for efficient vehicle and parking data management.

Nest — Home Automation using Arduino Uno   *February, 2025*

- Built a microcontroller-based Home Automation system using Arduino Uno and Bluetooth Module.
- Enabled remote control of lights, fans, and appliances via Android app.
- Automated device scheduling to improve energy efficiency.
- Used Relay Modules to switch high-voltage devices safely.

SmartCalci – Scientific Calculator   *July, 2024*
GitHub — Live

- Implemented a suite of mathematical operations (trigonometry, logarithms, exponentiation) in a Python-based calculator, improving calculation speed by 40% using NumPy.
- Designed a clean and interactive GUI for seamless user experience.

Skills

Languages: Python, C++, HTML, CSS, JavaScript, C
Frameworks & Libraries: OpenCV, Tesseract OCR, NumPy, Matplotlib, React.js
Backend/Database: MongoDB, MySQL, Node.js, Express.js
Hardware/IoT: Arduino Uno, Sensors (IR, Temperature, Motion), Relays
Tools/Frameworks: OpenCV, Tesseract OCR, Tkinter, Arduino, NumPy, MySQL, Linux
Technologies: Machine Learning, OCR, REST APIs, Home Automation, SMS Integration

Achievements

- Selected for **Amazon ML Summer School 2025**, a highly selective program offering advanced training in Deep Learning, Generative AI, Reinforcement Learning, and applied Machine Learning practices.
- Solved over 300 problems on LeetCode with a contest rating of 1677 and earned 10 badges, showcasing strong problem-solving and algorithmic skills.
- 5-star coder on HackerRank with a strong track record in algorithmic challenges and competitive programming.

Certificates

- Fundamentals of Machine Learning and Artificial Intelligence – AWS Training and Certification
- Python and Problem Solving – HackerRank
- Web Development (HTML, CSS, JavaScript, DBMS) – Infosys Springboard
- 0–100 Full Stack Web Development Course – 100xDevs