

AYUSH TIWARI

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PROFILE SUMMARY

A motivated engineering student passionate about software development, AI/ML, and database systems. Skilled in building real-world hardware-software projects and web applications. Looking for internship opportunities to apply problem-solving skills and develop industry-level expertise.

EDUCATION

Thakur college of engineering and technology, 07/2023 – Present
Bachelor of Engineering — Electronics & Computer Science
CGPA: 8.3

INTERNSHIP EXPERIENCE

Agastya Foundation & JP Morgan, *Intern* In-House Internship
(1 Month)
Designed a functional prototype of a water-cleaning robot using Arduino & mechanical components.
Integrated coding + electronics to solve real-world environmental problems.
Presented workflow, testing results, and improvement insights.

TECHNICAL SKILLS

Languages — C++, Python, HTML, CSS, JavaScript, **Frameworks / Libraries** — Pandas, NumPy, Matplotlib, Seaborn, Tailwind CSS, **Tools & Platforms** — Arduino IDE, ESP32, Git, VS Code, **Databases** — SQL (Basics), **Other** — Data Analysis, Problem Solving, LeetCode Rating: 101

CERTIFICATIONS

- (You will add your 3 certifications here)

LEADERSHIP & ACTIVITIES

Marketing Head
Leading marketing operations, event promotions, and community engagement.
Increasing participation through outreach campaigns and content strategy.
TCET Business Expo: Showcased Automatic Wall Painting Machine.
Balaji University Expo (Pune): Demonstrated full working prototype.
Think ML Competition: Built ML model for construction-fault detection.

PROJECTS

Water Cleaning Robot Model, *Arduino, ESP32, C++*
Designed a floating waste-collection robot with servo motors + DC motors for controlled waste retrieval.
Implemented ESP32-based wireless control and automated mesh movement for efficient waste disposal.

Automatic Wall Painting Machine, *Hardware + Arduino IDE, C++*
Built an automated roller-based painting system to reduce manual labor at construction sites.
Integrated motor control + sensor logic to ensure even paint application across large wall surfaces.
Demonstrated at TCET Expo & Balaji University Expo.

Recipe Finder Website, *HTML, CSS, JavaScript*
Developed a responsive recipe search tool that fetches detailed cooking instructions from APIs.
Built user-friendly UI/UX with clean layout and efficient search functionality.

Fault Detection ML Model, *Think ML Competition*
Built a machine-learning model to detect faults in construction equipment.
Contributed to preprocessing, feature selection, and initial ML pipeline setup.

ADDITIONAL DETAILS

Passionate about Software Development, ML Models & Database Systems
Strong interest in solving real-world engineering problems