ISHAN CHINTAMAN JAWALE

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EDUCATION

K. K. Wagh Institute of Engineering Education and Research — Expected Graduation: May 2026
Bachelor of Technology (Hons) in Computer Engineering — CGPA: 9.01

EXPIRIENCE

Smart India Hackathon 2024 – Hardware Edition — December 2024
Winner — *IIT Roorkee Nodal Centre*

- Developed an AI- and IoT-integrated automated drone system enabling real-time detection of apple diseases with 95% accuracy across 100+ acres of orchards in Himachal Pradesh.
- Delivered a scalable, high-precision solution aligned with government requirements by collaborating with 5+ key stakeholders for deployment and validation.

Machine Learning Internship — August 2024 – September 2024
Coincent.ai — *Remote*

- Completed an internship at Coincent.ai, contributing to a project on Vision Transformer architecture to advance deep learning applications.
- Authored a detailed technical report covering project objectives, methodology, implementation, and outcomes, supplemented with step-by-step visual documentation.

Machine Learning, IoT, Blockchain and Cyber Security (MIBCS) Club — October 2023 – Present
Treasurer and Core Committee Member

- Managed financial operations for the MIBCS Club, ensuring efficient fund allocation and transparency while organizing technical workshops and events on AI, IoT, Blockchain, and Cybersecurity.
- Engineered and led a two-day event with five competitions and 300+ participants, boosting member participation and club activities by 30%

PROJECTS

Secure Banking Service App | *Python, Flask, OpenCV, FaceNet, TFLite* — March 2025 – April 2025

- Developed a multi-factor authentication system using PAN, Aadhaar APIs, and FaceNet with TensorFlow Lite, enhancing identity verification and fraud prevention in banking.
- Created an internal dashboard for employees to manage 100+ daily service requests, monitor verification status, and track auto-generated tickets, improving workflow efficiency.

Automated Drone System for Apple Disease Detection | *Python, Keras, OpenCV, Google Cloud* — December 2024

- Developed a drone-based system for real-time image capture and apple segmentation, achieving 92% disease detection accuracy using a Keras CNN model deployed on Google Cloud Platform across 100+ acres.
- Implemented geospatial analysis to detect over 1,000 orchard trees, calculate GPS coordinates, optimize drone flight paths by 30%, and designed a responsive, user-friendly interface used by 50+ farmers.

Tree Plantation Management System | *Python, API Integration, NumPy* — September 2024 – October 2024

- Developed Sprout, a mobile app promoting environmental sustainability by recommending optimal tree-planting locations and connecting users with NGOs, engaging 500+ active users.
- Built the app using Java for frontend development, Firebase for real-time database management, and Gemini API for precise location tracking and environmental data integration.

Smart Irrigation System | *IoT, Python, Scikit-Learn* — 2022 – 2023

- Designed an IoT-based smart irrigation system integrating cloud-connected sensors for real-time soil moisture and weather monitoring, optimizing water consumption.
- Developed and validated a crop recommendation model that reduced water usage by 40% and enhanced crop management efficiency.

CERTIFICATIONS

- Supervised Machine Learning: Regression and Classification (Coursera, Stanford, Deeplearning.ai)
- NPTEL: Design and Analysis of Algorithms
- NPTEL: C++
- Microsoft Azure AI Fundamentals

TECHNICAL SKILLS

Languages: Python, C++, C, SQL, Java
Libraries: Scikit-Learn, Keras, NumPy, Pandas, Pytorch, Matplotlib