

Harsh Jagtap

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GitHub Profile
LinkedIn Profile

EDUCATION

- G.H. Raison College of Engineering, Nagpur** 2021 – 2025
B.Tech in Computer Science & Engineering (IoT) CGPA: 8.83
- Mohsinbhai Zaweri Jr. College Desai Ganj(Wadsa), Gadchiroli** 2020
Higher Secondary Certificate (HSC), MSBSHSE Percentage: 74.15
- Z.P. High School, Gadchiroli** 2018
Secondary School Certificate (SSC), MSBSHSE Percentage: 89.60

INTERNSHIP

- PhoenixZone Technologies Pvt. Ltd.** 15 Jun, 2024 – 17 Dec, 2024
Pune
Intern
– Spearheaded the development of an **IoT-Integrated Machine Learning** system for cattle health monitoring, utilizing **ESP32 microcontrollers**, accelerometers, and RFID sensors to capture real-time behavioral data.
– Engineered a predictive analysis pipeline using **Gradient Boosting Machine (GBM)** algorithms, achieving a **92% accuracy rate** in detecting estrus cycles and reducing false positives.
– Integrated **Google Firebase** for scalable cloud storage and developed a user-friendly dashboard to visualize health metrics, enabling data-driven decision-making for farmers.
– Demonstrated **Team Leadership** and **Teamwork** by coordinating field trials that resulted in a **10–15% increase in milk productivity** and improved reproductive management efficiency.

PROJECTS

- CDAC Alumni Management & Engagement Portal** 1 Month
Full Stack Developer
– Technologies: Java, Spring Boot, Spring Security, JWT, React.js, MySQL, Hibernate.
– Developed a centralized full-stack platform to streamline alumni and student engagement, featuring event management and role-specific dashboards.
– Implemented **Role-Based Access Control (RBAC)** using **Spring Security** and **JWT** to ensure secure data access for Admin, Alumni, and Student users.
– Designed scalable **RESTful APIs** following a layered architecture and utilized **Hibernate/JPA** for efficient data persistence and validation.
- Intelligent Vehicle Diagnostic Terminal** 1 Month
.NET Developer
– Technologies: C#.NET 8, WPF, MVVM Pattern, Asynchronous Programming.
– Built a real-time vehicle simulation dashboard using **WPF**, implementing the **MVVM architecture** to decouple the UI from business logic.
– Engineered a background physics simulator using **Async/Await** and **C# Events** to generate live telemetry (RPM, Torque, Temp) without freezing the UI.
– Integrated an interactive query interface allowing users to "chat" with the vehicle to diagnose active faults and retrieve status updates via data binding.

TECHNICAL SKILLS

Languages: Java, C#, C++, JavaScript, SQL
Frameworks & Databases: Spring Boot, .NET, WPF, React.js, Hibernate, MySQL
Tools & Platforms: Git, GitHub, VS Code, Visual Studio, Postman
Concepts: OOP, DSA, MVVM, REST APIs

LEADERSHIP & VOLUNTEERING

- Technical Team Member, AI Odyssey '24** Apr 2024
– Developed the 'Scan & Hunt' technical game, designed event posters, and managed technical logistics. Collaborated with the core team to troubleshoot real-time challenges, ensuring seamless event execution and high participant engagement.
- Social Volunteer, Anmol Foundation (Project Samarpan)** Jan 2024
– Created tactile educational crafts for blind students and conducted hands-on learning sessions. Demonstrated strong team leadership by coordinating workshop activities and fostering an inclusive environment for skill development.

CERTIFICATIONS

- PG Diploma in Advanced Computing (PG-DAC), C-DAC Hyderabad** Aug 2025 – Feb 2026
– Completed a **900-hour intensive full-time** residency program designed to bridge the gap between academic knowledge and industry standards.
- Mastering Java + Spring Boot: REST APIs and Microservices, Udemy** Nov 2025
– Completed an extensive **83.5-hour** specialized curriculum focusing on building scalable backend systems using Spring Boot and Microservices architecture.