

SAIRAJ JADHAV

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PROFESSIONAL SUMMARY

Full Stack Developer & AI Engineering student with hands-on experience in MERN stack, Django, and machine learning systems. Proven track record of building scalable AI-driven platforms, IoT-based communication systems, and data pipelines used in real-world applications. National-level hackathon winner and published researcher with strong foundations in system architecture, REST APIs, and applied ML. Seeking Software Engineer / Full Stack Developer internship roles.

EDUCATION

Bachelor of Technology (B.Tech) in Artificial Intelligence & Data Science

Dr. D.Y. Patil College of Engineering and Innovation (2023 – 2027)

CGPA: 8.11/10.0

Pune, Maharashtra

Higher Secondary Education (HSC)

Abasaheb Garware College of Arts and Science (2020 – 2022)

Marks: 70.33%

Pune, Maharashtra

TECHNICAL SKILLS

- Languages:** Python, JavaScript (ES6+), TypeScript, C/C++, SQL (PostgreSQL, MySQL), HTML5, CSS3.
- Web Development:** MERN Stack (MongoDB, Express.js, React, Node.js), Django, Flask, REST APIs, Tailwind CSS.
- AI & Data Science:** Scikit-Learn, TensorFlow, PyTorch, Computer Vision (OpenCV, YOLOv8), Pandas, NumPy, Matplotlib, Natural Language Processing, Bio-Analytics.
- IoT & Embedded Systems:** ESP32, LoRa Communication, Arduino, Raspberry Pi, Circuit Design, Firebase IoT.
- Tools & DevOps:** Git, GitHub, Postman, Vercel, Netlify.

EXPERIENCE

Lead Full-Stack Developer & Team Lead

2024 – 2025

Viro-AI | Team Rakshanu

- Led a 4-member engineering team to architect an AI-driven viral genomics analysis platform focused on public health intelligence.
- Designed and implemented Python + Django-based ETL pipelines to ingest, clean, and normalize 100,000+ biological records from NCBI and PubChem.
- Developed and integrated machine learning classification models (Scikit-learn) achieving approximately 88% accuracy in viral variant identification.
- Built RESTful APIs to support scalable data access and model inference across platform components.
- Directed end-to-end technical execution, resulting in 1st Place at Dr. D.Y. Patil Ideathon and 2nd Prize at a National-Level Sci-Tech Hackathon.

PROJECTS

SRANS | Smart Regional Alert & Navigation System

Published Research: [IJACTE Journal](#)

React.js, Node.js, Express.js, MongoDB, REST APIs, Web Architecture | [GitHub](#)

- Designed and developed a fully web-based disaster alert and navigation platform for use during infrastructure failures and disease outbreaks.
- Implemented real-time alert dissemination and route guidance using RESTful services and centralized data handling.
- Engineered the system architecture with scalability and fault tolerance in mind for emergency-response scenarios.
- Published a research paper detailing system design and implementation in the International Journal of Advanced Computing Technologies (IJACTE).

NutriCare 360 | Smart Health Management

MongoDB, Express.js, React.js, Node.js, External APIs | [GitHub](#)

- Built a secure MERN-stack health management system for storing digital medical records and prescriptions.
- Implemented automated medicine reminders and structured prescription storage to improve patient adherence.
- Developed a nutrition intelligence module integrating external APIs to generate personalized diet recommendations.
- Designed a responsive, high-contrast UI optimized for elderly and accessibility-focused users.

ACHIEVEMENTS

- 1st Prize** – Ideathon (Innovation Pitch Competition): Led Team Rakshanu to first place at Dr. D.Y. Patil College of Engineering and Innovation for the Viro-AI project.
- 2nd Prize** – National Level Sci-Tech Hackathon 2025: Secured second place and a ₹3000 cash prize at AISSMS College of Engineering for Viro-AI development.
- 3rd Position** – Hackathought Competition: Recognized for innovative problem-solving and excellence in teamwork.
- Published Research Paper** – Authored and published a research paper on the [Smart Regional Alert & Navigation System \(SRANS\)](#) in the International Journal of Advanced Computing Technologies (IJACTE).

TECH INTEREST AREAS

- Full Stack Web Development (MERN Stack, Django, REST APIs)
- Artificial Intelligence & Machine Learning Applications
- AI for Healthcare & Bio-Analytics
- Scalable Web Systems & Backend Architecture
- Disaster Management & Public Safety Platforms
- Data-Driven Systems & Intelligent Alert Solutions

CERTIFICATIONS

• Developing AI Applications with Python and Flask	IBM LINK
• Developing Back-End Apps with Node.js and Express	IBM LINK
• Developing Front-End Apps with React	IBM LINK
• Python for Data Science and AI	IBM LINK
• Python Data Structures and Algorithms	IBM LINK
• Introduction to Cloud Computing	IBM LINK
• Introduction to Software Engineering	IBM LINK