SAIRAJ JADHAV

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PROFESSIONAL SUMMARY

AI & Data Science engineering student with strong hands-on experience in full-stack development, machine learning, and IoT-based systems. Experienced in building scalable, real-world solutions for public safety, health, and assistive technology applications. Actively involved in applied research, with published research work focused on system architecture and intelligent alert platforms. Proven ability to collaborate in team-driven environments, lead technical implementations, and deliver solutions recognized at national-level hackathons.

EDUCATION

Bachelor of Technology (B.Tech) in Artificial Intelligence & Data Science   **CGPA: 8.11/10.0**
Dr. D.Y. Patil College of Engineering and Innovation (2023 – 2027)   Pune, Maharashtra

Higher Secondary Education (HSC)   **CGPA: 8.11/10.0**
Abasaheb Garware College of Arts and Science (2020 – 2022)   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

- Architected the technical roadmap and led a 4-member engineering team for an AI-driven viral genomic analysis platform.
- Engineered robust ETL pipelines using Python and Django to normalize massive datasets from NCBI and PubChem.
- Integrated custom ML models (Scikit-learn) to classify viral variants and predict protein-ligand interactions with high reliability.
- Won 1st Place at Dr. D.Y. Patil Ideathon and 2nd Prize at National Sci-Tech Hackathon (AISSMS College of Engineering).

PROJECTS

SRANS | Smart Regional Alert & Navigation System | Github   **Published Research: IJACTE Journal**

- Architected a resilient disaster-tech platform providing real-time navigation and alerts during infrastructure failures and disease outbreaks.
- Designed an off-grid LoRa-based communication system using ESP32 to transmit SOS data in areas without cellular connectivity.
- Published research paper detailing the system architecture in the International Journal of Advanced Computing Technologies (IJACTE).

NutriCare 360 | Smart Health Management | Github

- Built a MERN-stack ecosystem for secure medical record management, featuring automated medicine reminders and prescription storage.
- Implemented a nutrition intelligence module that provides personalized dietary suggestions via external API integrations.
- Designed a responsive UI/UX to ensure accessibility for elderly users, focusing on high-contrast visuals and intuitive navigation flows.

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).

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**