Sujit Annasaheb Laware

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Education

SRM Institute of Science and Technology (SRMIST), Chennai — Expected 2027
B.Tech in Electronics and Communication Engineering (Data Science Specialization) — *CGPA: 8.43 / 10*

Indian Institute of Technology Madras — Expected 2027
B.S. in Data Science and Applications — *CGPA: 7.00 / 10*

Experience

Research Intern — May 2025 – Present
Rural Technology Action Group (RuTAG), IIT Madras — *Chennai, India*
- Built an offline multilingual dashboard connecting ESP32 and Raspberry Pi for remote heat-pump dryer monitoring and control.
- Developed and deployed ResNet-18/ViT models for drying-stage classification (89% accuracy) and moisture estimation on Raspberry Pi.
- Integrated camera and sensor data for weight/color control, contributing to an observed 10% improvement in cardamom market value; filed two patents.

Technical Lead — Apr. 2025 – Sept. 2025
Zeex AI (IIT Madras Pre-Incubated Student Startup) — *Chennai, India*
- Led a team building end-to-end computer vision products, owning system design, MLOps, and AWS deployment.
- Built Z-Tracs, an AI traffic management system selected for the final round of the CUMTA Open Innovation Challenge; also initiated Z-Market, an AI analytics platform for supermarket surveillance .

AI/ML & Cloud Engineering Intern — Dec. 2024 – Apr. 2025
Runverve — *Chennai, India*
- Led backend/deployment interns to ship scalable Flask + PostgreSQL microservices on AWS using Docker and CI/CD, while building ML fitness models and an NER-based prescription extraction system.

Projects

Multi-Agent AI Research System | *LangGraph*, *LangChain*, *Gemini API*, *Tavily*, *ChromaDB*, *FastAPI* | GitHub
- Developed a multi-agent AI system that orchestrates specialized LLM agents for web research, retrieval, reasoning, and source-backed report generation using LangGraph workflows.
- Built an end-to-end RAG pipeline with Tavily search, ChromaDB vector retrieval, and FastAPI APIs, significantly reducing manual research effort while improving response quality.

Credit Risk Assessment using SHAP | Python, XGBoost, Scikit-learn, SHAP
- Built an XGBoost credit-risk classification pipeline with preprocessing and 5-fold cross-validation, achieving **92% accuracy** and **0.94 ROC-AUC**.
- Applied SHAP for global/local explainability and used hyperparameter tuning, calibration, and error analysis to interpret risk predictions.

Architecture Academics – EdTech Platform | *Next.js*, *FastAPI*, *PostgreSQL*, *AWS*, *Docker*, *CI/CD* | Live
- Built a full-stack EdTech platform with course, blog, events, workshops, jobs, discussions, and content management features.
- Deployed on AWS with Docker, PostgreSQL, and CI/CD; platform content has generated **1L+ impressions**.

Technical Skills

Languages: Python, Java, C, SQL, Bash

Full Stack: FastAPI, Flask, React, Next.js, REST APIs, PostgreSQL, SQLite, Redis, Kafka, Celery, PostGIS
AI / ML: PyTorch, Scikit-learn, LangChain, LangGraph, LLMs, RAG, ChromaDB, OpenCV, MCP
Cloud & DevOps: AWS (EC2, ECS Fargate, S3, RDS, SageMaker, Bedrock), GCP, Docker, Git, GitHub Actions, CI/CD
Tools: Linux, Postman, Jupyter Notebook, Raspberry Pi

Awards & Honors

Paytm Build for India AI Hackathon 2026 (Winner) — Built Munim AI, an AI assistant for small-business management.

Block-a-thon AI & Blockchain Hackathon 2025 (Winner) — AI agent-based DeFi yield optimization protocol.

Google Agentic AI Hackathon 2025 (Finalist) — Built an agentic AI financial copilot.

Avishkar Hackathon 2025, NIOT & SRMIST (Runner-up) — Digital twin for predictive pipeline maintenance.

Leadership & Community

AWS Cloud Club Captain, IIT Madras (2025 – 2026) — Lead one of the top-200 AWS Cloud Clubs worldwide with 1,000+ members, driving cloud-learning initiatives across the student developer community.