

Sujal Almeida

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SUMMARY

Aspiring Artificial Intelligence and Machine Learning specialist, currently a final-year Computer Science student with hands-on experience in building predictive models. Skilled in deep learning, reinforcement learning, and computer vision, actively seeking opportunities to further develop expertise in AI/ML.

EDUCATION

Fr Conceicao Rodrigues College of Engineering

Mumbai

BE in Computer Engineering

2022-2026

CGPI: 9.07/10

- **Relevant Coursework:** Computer Architecture, Operating Systems, Database Management Systems, Data Structures and Algorithms, Programming, Computer Graphics, NLP, Mobile Computing, Cloud Computing

SKILLS

ProgrammingLanguages: Python, SQL, Java

FrameworksAndLibraries: Django, scikit-learn, NumPy, React.js, React Native, OpenCV, Flower, TenSEAL, PyTorch, Flask, Gemini, LangChain, Ollama

CloudTechnologies: AWS (EC2, S3, RDS, Lambda), Firebase, Supabase

WORK EXPERIENCE

Machine Learning Intern

Dec 2024 – Jan 2025

ICICI Prudential Life Insurance

Mumbai, India

Tech Stack: Python, scikit-learn, Django, AWS Lambda

- Processed 1M+ data points, improving data quality by 30%.
- Engineered 25 + features, boosting model accuracy by 15%.
- Optimized ML models, increasing recall to 87%.
- Conducted post-model analysis to enhance decision-making.

PROJECTS

PrivMed | Privacy-Preserving Video Surveillance

Jun 2025-Present

- Built a secure federated learning system for disease prediction.
- Used homomorphic encryption to protect patient data.
- Aggregated encrypted model updates to improve accuracy.
- Created a React dashboard for labs and admins.
- Tech Stack: Python, React, Flask, Flower, CKKS

CivicEcho | Crowdsourced Civic Issue Reporting and Resolution System

August 2025-Present

- Used multimodal analysis (text, image, voice) for rich incident reporting.
- Automated complaint triage and routing via agent-based orchestration.
- Integrated crowd and AI verification to filter spam and group duplicates.
- Tech Stack: React Native, Flask, MediaPipe, Hugging Face, Whisper, Vakyansh, Gemini

AuraFitness | AI Fitness & Nutrition Assistant

Apr 2025

- Built a Django app for AI-powered fitness and nutrition.
- Implemented food image analysis with Gemini to extract macros.
- Built a real-time workout coach with MediaPipe and OpenCV.
- Shipped a fitness agent with LangChain + Ollama and Fitbit importers.
- Tech Stack: Python, Django, OpenCV, MediaPipe, Gemini, LangChain, Ollama

Publications

- Sujal Almeida, Vijay Shelake, Snowy Fernandes, Hemant Khanolkar. "Harnessing Generative AI for Precision Chemistry." International Journal of Computer Applications, Vol. 187, No. 43, Sept 2025. DOI: 10.5120/ijca2025925749
- Sujal Almeida, A. Dabre, S. Correia, S. Rodrigues, S. Kamoji, S. Deshmukh. "AI with Agency, Cities with Resilience: Deploying Agentic Systems for Urban Disaster Response." Presented at the International Conference on Advancing Technology in Engineering and Science, 2025. (Accepted for publication, forthcoming)

Certifications

AWS Academy Graduate -AWS Academy Cloud Architecting | [Link](#)

AWS - Natural Language Processing | [Link](#)

Google Cloud Skills - Big Data Analytics | [Link](#)