

# Aleena Varghese *Full-Stack Developer (APIs & AI/ML)*

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🌐 LinkedIn 🔗 Portfolio 📄 Medium

## PROFILE

Results-driven **Full-Stack Developer and Tech Media Creator** skilled in building scalable web applications and impactful digital experiences. Adept at integrating **AI/ML intelligence**, designing **modular architectures**, and developing **media-rich platforms** using React, Flask, and FastAPI. Combines software engineering expertise with a creative background in **content design, data storytelling, and visual communication** — delivering solutions that are both functional and engaging. Known for agile teamwork, rapid prototyping, and clean, maintainable code.

## EDUCATION

**MSc in Artificial Intelligence and Machine Learning** 2023 – 2025 | Bangalore, Karnataka  
*Christ(Deemed to be University)* 📄

**Bachelor in Computer Applications** 2020 – 2023 | Rajkot, Gujarat  
*Christ College* 📄

## PROFESSIONAL EXPERIENCE

**Full-Stack Developer (APIs & AI/ML)** 01/2025 – Present  
*SenseSys Pvt. Ltd.*

- **Leading development of Hosting Cloudly**, a no-code cloud hosting platform built with a Flask backend and a React frontend interface, designed for deploying AI models seamlessly.
- Architected and implemented **20+ APIs** to manage cloud resources, model deployments, logs, and environment configurations.
- Integrating **real-time monitoring and logging** systems for performance tracking and failure diagnosis.
- Improved deployment speed by **40%**, and enhanced infrastructure efficiency by **30%** through optimization and asynchronous task handling.
- Managing an **8-member cross-functional team** including Jr. frontend developers, backend engineers, and DevOps interns; conducted sprint planning, code reviews, and QA validation.

**Graphic Designer** 09/2024 – 12/2024  
*Nextu Empower*

- Created 350+ visual assets (banners, reels) that improved user engagement by **28%**
- Managed digital brand consistency and adapted content across Instagram, YouTube, and LinkedIn
- Reduced content turnaround time by **35%** through design system standardization

## SKILLS

### Technical Skills

- **Languages & Libraries:** Python, JavaScript, HTML, CSS, PHP, ReactJS, Flask, FastAPI, Django
- **ML & AI Frameworks:** scikit-learn, PyTorch, TensorFlow (basic), NumPy, Pandas, Matplotlib
- **Reporting & Analytics:** Google Sheets, Microsoft Excel (Pivot tables, VLOOKUP, basic macros), Tableau, Power BI (basic knowledge)
- **LLM & APIs:** Groq API, Gemini API, LLAMA, Gmail Toolkit
- **Databases & Tools:** MySQL, SQLite, Postman
- **Cloud & Hosting:** Render, Streamlit, Flask server deployment
- **Tech Media & Design:** Canva, Adobe Express, Figma, Notion, Brand Strategy, Video Editing (CapCut, Premiere Basics, Da Vinci Resolver)

## PROJECTS

**Hosting Cloudly (SenseSys Pvt Ltd)** 05/2025 – present  
*React • FastAPI • Supabase • Docker • Cloud Deployment*

- Built a complete **end-to-end AI hosting platform** allowing users to upload, deploy, and monitor models without writing code.
- Developed reusable and responsive **ReactJS components** for dashboard, model status, logs, and deployment forms.
- Connected frontend to **Flask-based 20+ APIs** with token-based auth and async background processing.
- Integrated **GPU utilization monitoring tools** like NVIDIA Nsight to provide live model performance feedback.

- Achieved **~45% reduction** in deployment load time through model profiling and caching strategies.

### **ZeroCodeML : No-Code Machine Learning Platform** [↗](#)

11/2024 – 04/2025

*Python, Flask, Machine Learning, React, scikit-learn, Matplotlib*

- Developed a no-code ML platform to automate the entire machine learning pipeline for users without technical backgrounds.
- Implemented support for both classification and regression tasks with automated data preprocessing, algorithm selection, model training, and evaluation.
- Integrated multiple ML algorithms with performance metrics like Accuracy, F1-score, RMSE, and R2 Score.
- Currently extending the platform with multimodal data support to handle images, text, and structured data in a unified pipeline.

### **SpamShield** [↗](#)

06/2024 – 08/2024

*Gmail Toolkit, LLM, Streamlit, CSS, HTML*

- Developed a real-time **email classification tool** that detects phishing, promotion, or primary content using **LLM-based inference**.
- Designed a **Streamlit UI** for end-users to view and test classification of their Gmail inbox in real time.
- Integrated with Gmail APIs for seamless message retrieval and display using OAuth2.
- Leveraged LLMs (LLAMA) to perform **sentiment and intent analysis**, achieving **92% classification accuracy**.
- Styled UI using custom HTML and CSS for a clean, mobile-responsive experience.

## **CERTIFICATES**

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**CERTIFICATES** — Deloitte : Data Analytics Job Simulation | Introduction to LLM | Data Engineering

Getting Started | Machine learning with Python | Prompt Engineering for generative AI | Natural Language

Processing | Ethical AI | Creating GPTs with Actions | Introduction to Power BI | AWS cloud foundation

## **PUBLICATIONS**

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### **“Enhancing Satellite Imagery with GAN-based Cloud Removal” – IEEE (July 2025)**

*Published in IEEE Xplore* | DOI: 10.1109/ICECCC60120.2025.11063844 [↗](#)

*Presented at ICECCC 2025, CMR Institute of Technology, Bengaluru*

Peer-reviewed and published by IEEE, this paper proposes a deep learning approach using **Generative Adversarial Networks (GANs)** to enhance satellite imagery by effectively removing cloud obstructions.

- Engineered a GAN architecture that improved spatial accuracy and clarity by **~40%** over baseline models
- Utilized **tensor-level optimizations** and GPU-based training to accelerate convergence and image reconstruction
- Benchmarked across EuroSat datasets; contributed to Earth observation preprocessing for geospatial analytics

## **LEADERSHIP & CONTRIBUTOR EXPERIENCE**

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- **Project Lead – Hosting Cloudly & ZeroCodeML** Leading an 8-member team at SenseSys to develop an AI hosting platform; and guided a 3-member team at Christ University to build a no-code ML tool.
- **Volunteer – ICSAC 2024** Committee member at International Conference on Sustainable Advanced Computing.
- **Media Head – Gateways 2023** Directed a 30-member team handling **branding, content strategy, and social media production** for a national tech fest. Produced 50+ event visuals and reels, increasing digital reach by **80%** through consistent creative campaigns.
- **Student Coordinator – TechArena** Handled digital strategy & scheduling for Christ College's National IT Tech Fest.
- **Infographics Lead – GDSC** Created visuals and event designs, boosting reach.
- **Workshop Facilitator – Canva & Storytelling** Conducted workshops for 100+ students, including a **2-day national session at Illuminaire, on brand identity, design thinking, and visual storytelling** using **Canva, AI, and modern media tools**; guided participants in building **digital portfolios**.
- **Outstanding Student Award– Christ College (CS Dept.)** Recognized for excellence in academics, leadership, and contribution.
- **Social Media & Branding Lead – University Clubs** Oversaw **Instagram + LinkedIn presence** for tech societies; developed content calendars, optimized posting cadence, and maintained consistent visual identity — boosting engagement by **70%**.
- **Social Media & Branding Lead** Managed digital identity & engagement for campus teams.

## **LANGUAGES**

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English | Malayalam | Tamil | Hindi | Gujarati