

# SWEATHA B

## Full Stack Developer | AI Engineer

+91 8072669270  sweethabalaji03@gmail.com  Sweatha|[Linkedin](#)  Sweatha|[GitProfile](#)  Chennai, Tamil nadu

### EDUCATION

#### Hindustan Institute of Technology and Science

Chennai | 2022 – Present

Bachelor of Technology (B.Tech) CSE – Specialization in AI & ML

CGPA: 9.53/10.0

### EXPERIENCE

#### Hogist Technologies Private Limited

Chennai | May 2025 – July 2025

##### AI Automation Engineer Intern - [LINK](#)

- Developed an **AI-powered Social Media Automation Platform for Instagram and Facebook** with features like Smart Analytics Dashboard, automated post scheduling, content calendar, and email automation.
- Integrated **Gemini, Meta, and Brevo APIs** for intelligent captioning, post management, and personalized email campaigns; Engineered the backend with **FastAPI, Celery**, and **Redis**, paired with a ReactJS frontend and Cloudinary to handle media uploads and delivery..
- **Tech Stack:** Python, FastAPI, ReactJS, Celery, Redis, REST API, ML Automation, Meta Developer API, Gemini API, Brevo, Cloudinary.

### PROJECTS

#### MEDSPACE – AI-Driven Healthcare Ecosystem - [LINK](#)

- Developed an end-to-end healthcare platform integrating AI-powered diagnostics, secured EHR storage, and real-time hospital discovery using Geoapify API.
- Achieved **90%+ diagnostic accuracy** in MRI, CT, and X-ray analysis using **VGG-19 and OpenCV**, while enabling symptom-based diagnosis, medicine recommendations, and **secure EHR** handling via Hugging Face models and JWT authentication, **reducing manual workload by 50%.**
- Built a **scalable full-stack system** using React.js, Flask, and SQL, integrated LLMs for NLP and **Geoapify API** for hospital discovery, enhancing user interaction and system responsiveness.

#### AGRIGURU - Modular AI-powered Farming Platform - [LINK](#)

- Built **AgriGuru**, a modular AI-powered farming platform offering **plant disease detection (98% accuracy)**, **crop planning**, and **weather-adaptive alerts**, tailored to support Tamil Nadu farmers with personalized, explainable, and **multilingual advisory.**
- Enabled **voice-based interaction in Tamil & English**, offline access via **local LLMs (Gemma via Ollama)**, and simplified access to government schemes, empowering non-literate users through real-time chat, audio, and bilingual insights.
- **Tech stack:** React.js, TypeScript, Tailwind CSS, FastAPI, TensorFlow, Keras, Scikit-learn, Gemma (via Ollama), Gemini, Random Forest, ResNet50, Web Speech API, Weatherbit API, RSS Feeds, Grad-CAM, PDFKit.

#### ML Model Analyzer – AI-Powered Evaluation & Optimization Tool - [LINK](#)

- Created a smart analyzer tool for evaluating Machine learning models based on accuracy, execution time, and energy consumption, automating **95% of manual evaluation workflows.**
- Integrated **LLaMA LLM and GenAI** to deliver intelligent model recommendations and performance interpretation through confusion matrices and accuracy graphs, while enhancing **decision-making by 40%** using real-time dashboards (Chart.js, matplotlib) and an **NLP-based chatbot** for insights.
- **Tech stack:** Flask, React.js, LLaMA, LLM as Judge, Hugging Face, TensorFlow, Keras, Chart.js.

### SKILLS

**Languages & Libraries:** Python · Java · JavaScript · SQL · HTML/CSS · TensorFlow · Keras · PyTorch · Scikit-learn · OpenCV  
NumPy · Pandas · Matplotlib · Seaborn

**Tools & Technologies:** AI/ML · Deep Learning · Generative AI · RAG · LLaMA · Large Language Models (LLM) · Computer Vision · Natural Language Processing (NLP) · LangChain · RNN · CNN · LSTM · MongoDB · Excel · Power BI · Tableau

**Frameworks & Platforms:** MCP · Flask · FastAPI · React.js · Node.js · Streamlit · Docker · AWS · GCP · Celery · Redis · n8n

**Soft Skills:** Problem-Solving · Analytical Thinking · Team Collaboration · Communication · Adaptability · Time Management  
· Critical Thinking · Leadership · Continuous Learning

### CERTIFICATES & ACHIEVEMENTS

**Certificate of Achievement – IBM:** Awarded for securing Second Place in the Poster Presentation Competition on Blockchain Technology, showcasing innovation in decentralized systems and tech-driven problem-solving.

**House Captain & Event Organizer – IBM Nexus Club:** Led and coordinated multiple technical and non-technical events, fostering peer engagement and leadership through strategic planning and team collaboration.