

Abhiram Mukkawar

AI/ML + Full-Stack Developer

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PROFESSIONAL SUMMARY

AI and full-stack developer with hands-on experience building agentic AI products, omnichannel communication systems, and scalable backend platforms. Worked across Python, Java, JavaScript, Django, MERN, Fastify, Kafka, REST APIs, WebSockets, React, and React Native to deliver AI-powered booking flows, A2A orchestration, real-time communication services, and cross-platform productivity applications. Built systems spanning 5 customer channels, 4 specialized A2A agents, 3 service domains, and 2 client applications.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript	Web Frameworks: Django, MERN, REST APIs, Fastify
AI / ML: Agentic AI, A2A Communication, RAG, NLP, AI Automation, Machine Learning	Cloud / DevOps: AWS, Docker, CI/CD, GitHub Actions
Messaging / Realtime: Kafka, WebSockets, Webhooks, LiveKit, Twilio	Observability: OpenTelemetry, Prometheus, Grafana
Frontend / Mobile: React Vite, React Native	Databases: PostgreSQL, MySQL, MongoDB

PROFESSIONAL EXPERIENCE

AI + Full-Stack Developer Lakhi Information Technologies Hyderabad	Aug 2025 - Present
Omnichannel platform: Built and enhanced an AI-powered communication platform spanning 5 customer channels - web chat, WhatsApp, email, voice, and video - for hospital, hotel, and telecom workflows. AI orchestration: Implemented platform-aware AI routing, partitioned long-term memory, and 4 specialized A2A agents to coordinate bookings, routing, and domain-specific execution across services. Booking automation: Designed backend workflows for AI-powered automated bookings through both direct platform integrations and agent-driven orchestration across omni channels. Distributed systems: Built a Kafka-based service bus with the outbox pattern to support reliable, decoupled asynchronous processing across backend services. Observability: Integrated OpenTelemetry, Prometheus, and Grafana to improve tracing, metrics visibility, and operational monitoring across distributed systems. Realtime delivery: Worked across REST APIs, WebSockets, webhooks, Fastify, LiveKit, and Twilio to support real-time communication and AI-enabled workflows. Cross-platform product: Built a personal AI agent available on both web and React Native mobile applications. Core workflows: Implemented AI-assisted reminders, task creation, note capture, and booking automation across connected platforms. Agent orchestration: Used A2A communication so specialized agents and services could coordinate actions, exchange context, and complete workflows. Productivity layer: Added email-aware and device-connected automation to help users organize work faster, retain actionable context, and deliver an AI-first workflow experience.	
AI / ML Intern MHCognition Hyderabad	Jan 2025 - May 2025
AI assistants: Contributed to AI-powered assistant workflows using Python, TensorFlow, and NLP techniques for academic automation and proctoring-oriented use cases. Applied ML: Supported model integration, backend development, and workflow automation for AI-driven educational products.	

PROJECTS

- DevGram** | Django, React, React Native
- **Full-stack build:** Created a social platform with web and mobile experiences, backend APIs, and role-aware user flows.
- Doubt Solver AI** | Python, NLP, Semantic Search
- **AI application:** Built a subject-aware Q&A system over course material to return context-relevant answers for student queries.
- Role-Based Virtual Assistant** | Python, NLP
- **Multi-role support:** Developed an assistant that delivered tailored responses for students, teachers, and academic administrators.
- RL Garbage Collection Optimizer** | Python, Reinforcement Learning
- **Optimization model:** Designed a reinforcement-learning route optimizer for smart-city garbage collection scenarios.

EDUCATION & CERTIFICATIONS

B.Tech in Artificial Intelligence and Machine Learning	GPA: 8.13
Malla Reddy University, Hyderabad	2021 - 2025

Certifications: AWS Academy Graduate - Cloud Foundations; AWS Academy Graduate - Machine Learning Foundations; DeepLearning.AI - AI for Everyone; Python Programming.