ABHINIVESH S

Applied AI Engineer

PROFESSIONAL SUMMARY

Applied AI Engineer with 4 years of experience delivering AI-driven web and mobile products, multi-agent workflows, and cross-platform applications. Demonstrates strong ownership in product design, team leadership, and scalable, secure system delivery. Skilled in Flutter, Python, LangChain, LangGraph, RAG, LLM fine-tuning, Next.js, TypeScript, QLoRA/LoRA, and FastAPI.

PROFESSIONAL ROLES

Founder & Lead - ATmega Software Technologies LLP
2020 - Present

- Managed and mentored a technical team of 5 engineers across Flutter, backend, and AI Stack.

- Oversaw project delivery, architecture decisions, sprint planning, and client interactions.

- Reviewed code, set up development standards, and ensured high quality engineering practices.

- Drove technical direction of the company, including migration to microservices, adoption of AI workflows, and secure development practices.

- Acted as a solo contributor for critical modules, backend microservices, AI integrations, and full app releases.

MAJOR PROJECTS

Timesmart.ai

Software Engineer (Applied AI)

Tech Stack: Flutter, Python FastAPI, OpenAI , OCR, Context Engineering, RabbitMQ, GraphQL, WebSockets, Spring Boot, Microservices, Keycloak

Key Contributions

- Built the cross platform frontend for web, Android, and iOS using Flutter.
- Designed AI driven contract automation using Python, OCR, and LLM reasoning to convert raw contracts into structured database format.
- Migrated a large Spring Boot backend to modular Python FastAPI microservices.

Kavi - Thirukkural Based LLM

LLM Developer

Model: https://huggingface.co/0xAbhi/kavi

Tech Stack: Python, Transformers, QLoRA, PEFT, Hugging Face, BitsAndBytes, CUDA, Dataset Curation, Prompt Engineering

Key Contributions

- Fine-tuned an LLM on 1,330 Thirukkural couplets using QLoRA for efficient training on limited hardware.
- Built optimized training pipelines with PEFT, quantization, and gradient checkpointing.
- Released 3 Versions on Hugging Face with inference-ready configs and evaluation logs.

HiTHard AI - Agentic Software Testing platform

Developer (FastAPI, Next JS, LangChain)

Link: https://hithard.atmega.in

Key Contributions

- QA agent that autonomously explores, detects bugs, and delivers actionable insights.
- Enables fast, predictive quality assurance with human AI collaboration for higher deployment velocity.
- Simplifies QA with a zero setup workflow, enter URL, trigger AI testing, and receive instant bug reports.

Dono Ride - Cab Booking Platform

Software Engineer (AI Enabled Mobility Systems)

Tech Stack: Flutter, Firebase, Vertex Ai, Google Maps, Provider, MVVM, Next.js, TypeScript, FastAPI

Interfaces Delivered: Admin Dashboard (Next.js), User App (Android & iOS), Driver App (Android & iOS)

Key Contributions

- Built a mobility ecosystem with booking flows, driver lifecycle systems, and admin analytics dashboard.
- Integrated Google Maps APIs for navigation, real time tracking, ETA calculations, and routing.
- Used LLM powered features such as ride intent detection, issue summarization, and fare explanation.
- Implemented Firebase Auth, Firestore, and FCM for real time ride state sync across all interfaces.