SYEDA ABIHA AHMED

Full-Stack AI/ML Engineer

📍 Karachi, Pakistan   ✉ abihaahmed413@gmail.com   🔗 [GitHub](#)   🔗 [Portfolio](#)   🔗 [LinkedIn](#)

PROFESSIONAL SUMMARY

Full-Stack AI/ML Engineer specializing in production-grade AI systems, cloud-native architectures, and intelligent automation. With **4 completed hackathons** and **15,000+ lines of deployed code**, I build scalable solutions using Next.js, FastAPI, Kubernetes, and modern AI frameworks. Experienced in RAG chatbots, NLP systems, and e-commerce automation with proven deployments on HuggingFace, Vercel, and Kubernetes clusters.

🟢 **Available for freelance projects starting February 21, 2026**

4	**15K+**	**5+**	**26**
Hackathons	Lines of Code	Projects Deployed	Technologies

TECHNICAL SKILLS

Frontend Development

Next.js 16, React 18

TypeScript, JavaScript

Tailwind CSS, HTML5, CSS3

Figma, UI/UX Design

Backend Development

FastAPI, Node.js

Python 3.13+

PostgreSQL, Neon

SQLModel ORM, RESTful APIs

AI/ML Integration

OpenAI GPT-4, Agents SDK

Google Gemini, RAG Systems

Qdrant Vector Database

MCP Servers, LangChain

Cloud & DevOps

Docker, Kubernetes, Helm

Vercel, HuggingFace Spaces

GitHub Actions CI/CD

Horizontal Pod Autoscaler

PROFESSIONAL EXPERIENCE

Full-Stack AI/ML Engineer (Freelance)
Feb 2026 – Present

Self-Employed | Karachi, Pakistan

- Building production-grade AI systems for clients including e-commerce automation and business intelligence

- Developing RAG chatbots with vector databases for customer service automation

- Deploying cloud-native applications using Docker, Kubernetes, and modern CI/CD pipelines

- Integrating OpenAI Agents SDK for NLP-powered CRUD operations and intelligent workflows

KEY PROJECTS

Taskley - AI-Powered Task Management System

Tech Stack: *Next.js 16, TypeScript, FastAPI, Neon PostgreSQL, OpenAI Agents SDK, Docker, Kubernetes, MCP*

Live: taskley.vercel.app | **GitHub:** ABIHAAHEMD4262/Todo-App

- Built multi-phase evolution from console app to cloud-native system with 4 deployment phases

- Implemented AI chatbot with NLP CRUD operations using OpenAI Agents SDK and MCP servers

- Deployed on Kubernetes with Docker containerization, Helm charts, and Horizontal Pod Autoscaler

- Backend: FastAPI with SQLModel ORM, Neon PostgreSQL (serverless), JWT authentication

- Frontend: Next.js 16 with Better Auth, React Hook Form, Zod validation

- Achievement: 12-Factor App compliant, production-ready architecture with graceful degradation

Humanoid Robotics Educational Platform

Tech Stack: *Docusaurus 3, React 18, TypeScript, FastAPI, Qdrant, Google Gemini, OpenAI GPT-4o-mini, Python*

Live: abihaahemd4262.github.io/Humanoid-Robotics-Book

- Created comprehensive educational platform with 18 chapters, 4 modules, 46 hours of content

- Built RAG-powered AI chatbot assistant using Qdrant vector database for semantic search

- Deployed FastAPI backend on HuggingFace Spaces with 768-dimensional Google Gemini embeddings

- Implemented citation system with clickable references for answer grounding

- Scale: 15,000+ lines of code, 45 commits, CI/CD with GitHub Actions

E-Commerce Platform with Admin Dashboard

Tech Stack: *Next.js, TypeScript, Tailwind CSS, Sanity.io, Vercel*

Live: hackathon-3-template-1.vercel.app

- Developed full-featured e-commerce platform with headless CMS integration

- Built real-time admin dashboard for business intelligence, sales tracking, inventory management

- Features: Shopping cart, checkout flow, real-time inventory updates, responsive design

- Deployment: Vercel with automatic deployments and edge functions

AI Employee for Business Automation (Current Project)

Tech Stack: *Claude Code, Python, Obsidian, Gmail API, UV Package Manager*

- Building autonomous business management system with AI reasoning and human-in-the-loop approval

- Implemented Python watcher scripts for Gmail monitoring with priority detection

- Created Obsidian-based knowledge management with markdown automation

- Designed workflow orchestration for task tracking, approval processes, and audit logging

EDUCATION

FSc Pre-Medical
2023 – 2025

Govt. Degree College for Women, North Nazimabad | Karachi, Pakistan

Certified AI, Web 3.0 & Agentic Computing
In Progress

Governor Initiative for AI & Computing (GIAIC) | Karachi, Pakistan

- Advanced AI/ML engineering concepts
- Agentic AI systems and automation
- Cloud-native application development

SERVICES OFFERED

AI-Powered Applications

Custom AI chatbots with RAG systems, NLP interfaces, OpenAI integration, and MCP server development.
$1,500 - $2,500

Full-Stack Development

Modern web applications with Next.js 16, TypeScript, FastAPI backends, PostgreSQL databases.
$3,000 - $5,000

E-Commerce Automation

AI customer service chatbots, intelligent inventory management, order tracking with NLP.
$2,000 - $4,000

Cloud-Native Deployment

Docker containerization, Kubernetes orchestration, Helm charts, modern CI/CD pipelines.
$75 - $100/hour

HACKATHONS & ACHIEVEMENTS

- **4 Hackathons Completed** before turning 18
- **15,000+ Lines of Production Code** across multiple projects
- **5+ Production Deployments** on HuggingFace, Vercel, Kubernetes
- **Kubernetes Deployment** with autoscaling and health monitoring
- **RAG Chatbot** with vector database and 768-dimensional embeddings
- **NLP CRUD Operations** using OpenAI Agents SDK

- **CI/CD Pipelines** with GitHub Actions automation

LANGUAGES

- **English:** Professional working proficiency

- **Urdu:** Native proficiency

All projects are live and accessible via provided links. Code samples available on GitHub.

Last Updated: January 2026