

# MUHAMMAD TALHA KHAN

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## OBJECTIVE

ML & AI Engineer with 2+ years of experience in building intelligent systems, full-stack applications, and deploying end-to-end AI solutions.

## EDUCATION

**Bachelor of Software Engineering**, COMSATS University Islamabad, Lahore Campus

2021 – 2025

**CGPA: 3.89/4.00** — *Gold Medalist*

## SKILLS

<b>Core ML/AI Skills</b>	Python, Machine Learning, ANN, CNN, Generative AI, LLM Orchestration, Fine-Tuning, RAG, Vector Databases
<b>Frameworks</b>	AutoGen, CrewAI, LangGraph, FastAPI, MCP, Celery, Django
<b>Full-Stack</b>	MERN Stack, MEAN Stack, React Native, Vue.js, Next.js, NestJS, CodeIgniter, Swift, Java, SQL
<b>Tools</b>	Git, Docker, Kubernetes, AWS, Azure, Hugging Face, Zapier, MAKE, JIRA
<b>Soft Skills</b>	Communication, Problem-Solving, Time Management, Leadership, Creativity

## EXPERIENCE

### Lead Software Engineer

KodeXLabs

Sept 2023 – Current

*Lahore, Punjab*

- Developed and deployed ML solutions with model training, fine-tuning, and real-time inference.
- Optimized performance using vector databases, agentic AI frameworks, and orchestration tools.
- Built automated MLOps workflows (CI/CD) to accelerate experimentation and deployment.

### Software Engineering Intern

TechQode

June 2023 – Sept 2023

*Lahore, Punjab*

- Optimized frontend performance by refactoring components and reducing bundle size.
- Integrated REST APIs for efficient data flow and improved application responsiveness.
- Built and deployed a full-stack Next.js app with Docker on DigitalOcean.

## PROJECTS

**Genaiva.** AI-powered restaurant order system using LangGraph, Pinecone (RAG), Twilio, and XGBoost. ([Live](#))

**PulseHTTP.** Agentic framework leveraging Playwright MCP server, Streamable HTTP, and advanced sampling for automated workflows. ([Live](#))

**CareerInsights.** AI career guidance agent using RAG and MCP for personalized recommendations. ([Live](#))

**CapstoneHQ.** AI-powered project automation with NLP-based document processing and predictive analytics. ([Live](#))

**FundedFlow.** Marketing and trading platform with Next.js, Supabase, Brevo, and Sanity for campaigns and trade management. ([Live](#))

## LEADERSHIP & ACTIVITIES

- Led a team in building AI-powered real-time order management systems using agentic frameworks.
- Mentored peers on ML pipelines, LLM orchestration, and deployment best practices.
- Active in AI research communities and technical writing.