MH

MUHAMMAD HASSAN

Python and AI Engineer
https://developer-hassan.vercel.app/

PROFESSIONAL PROFILE

Passionate Python Developer with expertise in Generative AI, ML/DL, and APIs Development. Skilled in deploying robust Python backend systems on AWS, GCP, Azure, and servers via SSH. Dedicated to leveraging my development and deployment learning to deliver impactful AI solutions. Committed to continuous growth, aiming to master emerging technologies like DevOps, LLMOps, Reinforcement Learning, and AGI to serve the community with innovative AI-driven solutions.

PROJECTS

AI INTEGRATIONS FOR INSURANCE APPLICATIONS
https://www.myalfred.com/

AI AVATAR TALKING APPLICATION – GENERATIVE AI
https://app.manyface.io/

APIS AUTOMATION WITH GEN AI
https://agileloop.ai/

STREAMING CONVERSATION USING WEBSOCKETS
https://ringneck.ai/

CODE FIRST AI AGENT FRAMEWORK CONTRIBUTION
https://github.com/developer-hassan/TaskWeaver

EXPERIENCE

PYTHON AND AI ENGINEER • MYALFRED LLC • MAY 2024 – PRESENT
Contributed to the development and deployment of AI products at InsuranceMarket.ae and MyAlfred LLC. Integrated new insurance bots in existing product.

PYTHON AND AI ENGINEER • THE OPTIMUM TECH • JUNE 2023 – MAY 2024
Collaborated with Research team and found 6 fine-tuned AI models. Hosted over 10 Python backend APIs on live servers within a year. Resolved production fixes.

AI ENGINEER • RINGNECK AI • OCTOBER 2023 – APRIL 2024
Seamless AI voice-to-voice calling using multiple AI Agents with websockets and webhooks integration. Achieved 1.2 second response time with Multithreading.

BACKEND ENGINEER • MANYFACEIO • JUNE 2023 – APRIL 2024
Complete control of Backend server management and app deployment. Created and integrated AI-backed APIs and managed the team of 10 people.

WEB DEVELOPMENT • NATIONAL FREELANCE TRAINING PROGRAM • JUNE 2021 – DECEMBER 2021
Developed 3 landing pages and 2 responsive websites. Connected SQL database in 1 product to provide data storage for Record Management.

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HARD SKILLS

- Programming – Python, OOP, DSA
- APIs – FastAPI, Django, Flask, Meta GraphAPI
- Gen AI – LangChain, LangGraph, Core Completions
- LLMs and Providers – OpenAI, Groq, Mistral, Ollama, Google Vertex and others
- VectorDB – Pinecone, Mongo, Chroma, FAISS
- SQL and NoSQL – MySQL, MongoDB, Neo4j, Postgres, SQlite
- TensorFlow & Keras
- Finetuning (Hugging Face & TFHub)
- Prompt Engineering, Prompt Tuning
- Version Control – Git, GitHub, GitActions
- Packaging – Docker, Containerization
- Python Deployment – GCP, AWS, Azure, Infomaniak, Hetzner, NameCheap

SOFT SKILLS AND PERSONALITY

- Leadership
- Organizational Behavior
- Good Communicator and Collaborator
- Trustworthy
- Responsible
- Adaptable
- Problem Solver

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE
National Textile University, Faisalabad • 2019-2023
> Learnt modern programming languages. Scholarship holder.

INTERMEDIATE IN COMPUTER SCIENCES
Punjab group of colleges, Faisalabad • 2017-2019
> Learnt building blocks of CS. 100% scholarship holder.

MATRICULATION IN COMPUTER SCIENCES
City Grammar School, Faisalabad • 2017
> Learnt CS and its applications. Prefect Society Member.

CERTIFICATIONS

AGENTIC APPLICATIONS WITH LANGGRAPH
LangChain Academy • 2024

DEEP LEARNING WITH TENSORFLOW
Zero to Mastery Academy • 2023

MACHINE LEARNING AND DATASCIENCE BOOTCAMP
Zero to Mastery Academy • 2022

TEACHER ASSISTANT - INTRO TO ARTIFICIAL INTELLIGENCE
National Textile University • 2023

COMPLETE PYTHON PRO BOOTCAMP
App Brewery • 2022