



MH

MUHAMMAD HASSAN

PYTHON AND AI ENGINEER

PROFILE

A professional, passionate, self-motivated Python Developer with the focus in AI. Possess a deep knowledge of ML/DL, Generative AI and API Development using Python. Backend deployment on AWS/GCP/Azure machines through ssh. Maintained a successful performance record throughout my career.

CAREER OBJECTIVE

Aiming to serve the community with my Artificial Intelligence capabilities in Python using techniques like Generative modelling, Computer Vision, Natural Language Processing, Transfer Learning and much more. Excited for modern skills like MLOps, Reinforcement Learning, AGI and stuff. Hoping to serve the community with the best I could.

SOFT SKILLS

- Leadership
- Organizational Behavior
- Good Communicator
- Trustworthy
- Responsible
- Adaptable

EXPERIENCE

PYTHON AND AI ENGINEER • THE OPTIMUM TECH • JUNE 2023 – PRESENT

Collaborated with Research team to explore state of the art AI models and finetuning. APIs development and configuration with Django/FastAPI. Worked with LLMs and LangChain. Generative modeling using GANs.

DEEP LEARNING WITH TENSORFLOW • ZERO TO MASTERY ACADEMY • SEPTEMBER 2022 – AUGUST 2023

Anatomy of neural networks. How, where, and why deep learning is implemented. Deep Learning models for classification, regression, computer vision, NLP. Preparing for the TensorFlow Google Certificate Exam.

PYTHON MACHINE LEARNING • ZERO TO MASTERY ACADEMY • DECEMBER 2021 – DECEMBER 2022

Basic concepts of data analysis / visualization using Python Libraries. Insights from different datasets. Scikit-learn models building and tuning. Made predictions using trained models.

PYTHON DEVELOPMENT • APP BREWERY • JANUARY 2022 – AUGUST 2022

Console-based and GUI applications and games. Web scraping to extract data from web. Record keeping with Python Data Structures. APIs usage and development.

WEB DEVELOPMENT • NATIONAL FREELANCE TRAINING PROGRAM • JUNE 2021 – DECEMBER 2021

Developed several landing pages and responsive websites. Connected database to provide data storage for Record Management.



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<https://www.linkedin.com/in/developer-hassan/>

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HARD SKILLS

- Python Programming
- LangChain / LLMs / VectorDBs
- OpenAI / Llama2 / Mistral
- TensorFlow & Keras
- Finetuning (Hugging Face & TFHub)
- Prompt Engineering
- Machine Learning / Deep Learning
- Data Analysis / Data Visualization
- OOP / DSA
- MySQL / PostgreSQL with Python
- Django / Flask / FastAPI
- Version Control using Git
- Backend Application Deployment

PROJECTS

AI AVATAR TALKING APPLICATION – GENERATIVE AI

<https://manyface.io/>

APPLICATION APIS AUTOMATION WITH GEN AI

IMAGE CLASSIFICATION DEEP LEARNING PYTHON

<https://github.com/developer-hassan/fashion-mnist-deep-learning-classification>

STREAMING CONVERSATION USING WEBSOCKETS

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE • 2019-2023 • NATIONAL TEXTILE UNIVERSITY, FAISALABAD

Modern programming languages. Scholarship holder.

INTERMEDIATE IN COMPUTER SCIENCES • 2017-2019 • PUNJAB GROUP OF COLLEGES, FAISALABAD.

Building blocks of CS. 100% scholarship holder.

MATRICULATION IN COMPUTER SCIENCES • 2017 • CITY GRAMMAR SCHOOL, FAISALABAD.

CS and its applications. Prefect Society Member.

CERTIFICATIONS

TEACHER ASSISTANT - INTRO TO ARTIFICIAL INTELLIGENCE

National Textile University • 2023

DEEP LEARNING WITH TENSORFLOW

Zero to Mastery Academy • 2023

MACHINE LEARNING AND DATASCIENCE BOOTCAMP

Zero to Mastery Academy • 2022

COMPLETE PYTHON PRO BOOTCAMP

App Brewery • 2022

WEB DEVELOPMENT

National Freelance Training Program • 2021



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