

# Faizan Munsaf

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Address: Sodiwal Bund Road Lahore, Pakistan

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## PERSONAL PROFILE

I am a driven and talented professional who brings a unique blend of **strategic thinking**, **catalytic energy**, **empathetic understanding**, and **critical thinking** to everything I do. With a strong educational background, including a **Bachelor's degree in Computer Science** and certification in [Machine Learning](#), [Natural Language Processing](#), [Python Development](#) and [Deep Learning](#), I have developed a comprehensive skill set in the field of technology as a Backend Developer with Django, FastAPI and Flask. My exceptional problem-solving skills and excellent communication abilities make me a valuable asset to any team.

## WORK EXPERIENCE

### Software Alliance (Full Time)

Oct 2022 – Sep 2024

### Software Alliance (Part Time)

Sep 2024 – Mar2025

### [Machine Learning Engineer & Backend Developer \(Backend Developer | Gen AI | NLP\)](#)

Here I am Python Developer (Machine Learning Engineer) and as well as private BlockChain Developer. with the more proficiency of Javascript | TypeScript | Python | NLP | Generative Ai | Prompt Engineering.

- **LLM Expert:** Working with LLM to get the Optimistic Results
- **NLP Expert:** Preprocessing Dataset, Keyword Extraction from the text, beam search, Text Indexing with Llama-index and Langchain, Create Custom Models, RNN, RagModels, mmr Algorithm, Allen Nlp, Finetune Pretrained Models (PEFT, QLORA, ALPHACLORA, PPO)
- **Backend Expert:** Creates the Complete Architecture and programming part of Web Based Application, with FastAPI.

### PieCyfer (Full Time)

Sep 2024 – Jan 2025

### [Python Developer \(Backend Django Developer | NLP \)](#)

Here I am a Python Developer (Backend Developer) and also a NLP Engineer, with proficiency in FastAPI | Django-Ninja Framework | Python | NLP | Generative AI | Prompt Engineering.

- Developed Python Django Ninja templates for backend handling with Docker **microservices** following **MVVT** design patterns.
- Wrote database **migrations**, **custom commands**, and backend services to streamline **development** processes.
- Implemented intermediate backend Python development tasks at **PieCyfer**.
- Collaborated with the team to support and enhance backend functionalities for optimal performance.
- Optimized code for performance and scalability while managing **Git** version control on AWS servers.
- Utilized Python skills to contribute to the development of efficient, scalable, and maintainable solutions.

### TransData (Full Time)

Mar 2025 – Continue

### [Python Developer \(Backend FastAPI | NLP \)](#)

I specialize in developing **FastAPI backend** solutions at Transdata, integrating **LlamaIndex**, **LangGraph**, and **LangChain**, with a primary focus on **NLP** and occasional work in CV and object detection.

- Designed and implemented **microservices** architecture with Docker, following **MVVT** design patterns for **scalability** and **efficiency**.
- Built and optimized backend services, database **migrations**, and custom commands to streamline development workflows.
- Managed and optimized backend performance, ensuring **seamless integration** with cloud-based infrastructures like **Heroku** and **AWS**.
- Collaborated with teams to enhance backend functionalities, maintaining best practices in **Git version control** and code scalability.

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## LEADING PROJECTS

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### AllahuAlam

Dec 2023 (Dec 2024)

[Python](#) | [NLP](#) | [ML](#) | [GenAI](#) | [FastAPI](#)

In this project, I implemented the MVC (Model-View-Controller) Design Pattern to streamline workflow and ensure efficient application functionality. Users can interact with their selected bots, which provide precise responses tailored to the specified index. Key highlights of the project include:

- Fine-tuning Q-Lora models with advanced chat-based frameworks.
- Integration with Llama Index and LangChain for seamless data processing.
- Leveraging Llama-2-13B-chat meta pre-trained models for enhanced conversational AI.
- Interaction with Ollama models for advanced AI capabilities.
- Implementing Faiss Vector DB for optimized vector search and retrieval.
- Developing a FastAPI backend with MongoDB for secure and scalable data management.
- Utilizing the MVC Design Pattern for clear and maintainable code architecture.
- Extracting and analyzing data directly from PDFs for insights.
- Building a robust user authentication system with FastAPI, featuring clean and custom code implementation.

### AutoQuiz

Jan 2022 (Jan 2023)

[Python](#) | [NLP](#) | [ML](#) | [GenAI](#) | [FastAPI](#)

In this project, users can upload books to our platform, and our model generates multiple-choice questions (MCQs) from the provided content. This feature significantly benefits teachers by streamlining the creation of assessments and enhancing teaching materials. Key aspects of the project include:

- Fine-tuning a model for Question/Answer generation using TensorFlow Lite.
- Hosting the model on Hugging Face for public access ([Model Link](#)) ([Hugging Face Profile](#)).
- Preprocessing datasets with advanced NLP techniques for optimal model performance.
- Extracting keywords using the **pke** library and leveraging them to create MCQ distractors and objectives.
- Implementing a Google/T5-based model to generate high-quality questions.
- Conducting text analysis to extract meaningful insights from the content.
- Building a robust user authentication system with FastAPI, featuring clean and custom code implementation.

### Krytron

Dec 2022 (Mar 2025)

[Node.js](#) | [TypeScript](#) | [MVC](#) | [Express](#) | [Private Blockchain](#)

In this project, we are developing a groundbreaking banking application integrated with a Secure Payment Methods platform to ensure safe and seamless transactions. Key features and responsibilities include:

- Implementing middleware for **Blockchain** technology using Node.js to ensure secure and efficient operations.
- Designing and managing complete authentication processes to safeguard user data and transactions.
- Developing and maintaining chain codes for **Blockchain** functionality.
- Configuring gateways using **TypeScript** for seamless communication and transaction processing.
- Building a full-fledged web application with a focus on performance and usability.
- Leading backend development responsibilities, including APIs, database integration, and system scalability.

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## TikTok Bot

Oct 2022 (Dec 2023)

[Python](#) / [Selenium](#) / [Automation](#)

In this project, we developed a bot that automates TikTok account logins and performs random activities on the platform. Key features include:

- Retrieving account credentials (emails) securely from MongoDB.
- Implementing web crawling functionality to navigate the TikTok website programmatically.
- Automating account login and simulating random user activities to achieve the desired outcomes.

## Amaizing.io

Oct 2022 (Dec 2023)

[Python](#) / [Django Ninja](#) / [NLP](#) / [Amazon Rainforest-api](#)

In this project, I developed a tracking system to monitor user products from Amazon, utilizing Python Django Ninja. My contributions included:

- Crafting and optimizing SQL complex queries with **Django's** built-in models on **PostgreSQL** for efficient data handling.
- Designing and implementing complex logic workflows to ensure seamless data flow and system functionality.
- Writing custom Django management commands for server execution, scheduled to run via cron jobs to automate tasks.
- Creating custom database **migrations** and updating existing model migrations to adapt to changing requirements.
- Conducting robust testing using **Pytest** to ensure the reliability and integrity of functional workflows.
- Implementing **mock testing** for individual functions to validate their performance in **isolated** scenarios.
- Developing and deploying **dynamic email** templates with Postmark to enhance user communication.

## Humanup.com

Mar 2025 (Continue)

[Python](#) / [FastAPI](#) / [NLP](#) / [LlamaIndex](#) / [Pinecone](#) / [Custom Embedding Creation](#)

I am developing a project using **FastAPI** and **PostgreSQL** to manage user health prompts, storing them in Pinecone for chat-based recommendations with **LlamaIndex** retrieval and **OpenAI's Ada-002** model for NLP processing.

- Developing a project that manages multiple user prompts related to health conditions.
- Using **FastAPI** for backend development and **PostgreSQL** for storing table states.
- Storing user data and health-related queries in Pinecone.
- Implementing **LlamaIndex** for embedding storage and retrieval from Pinecone.
- Enabling users to chat and receive health recommendations based on stored data.
- Utilizing **OpenAI's Ada-002** model for **embeddings** and **GPT-4o** for generating responses.

(There are some casual project that I create with python **Reminder & Kameti Desktop App**, **Paraphrasing Tools**, **FaceRecognition with OpenCV**, **Object Detection with Yolov8** and many more).

## EDUCATION

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### Superior University Lahore

Jun 2019 – Jun 2023

[B.S.C.S. Computer Science](#)

CGPA: 3.56/4.0

### Govt. Commerce College

Aug 2017 – Jun 2019

[H.S.S.C. Intermediate of Computer Science](#)

Pass with B Grade

### Hamiyat - e - Islam Higher Secondary School

Aug 2015 – Jun 2017

[S.S.C Computer Science](#)

Pass with B Grade

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## CERTIFICATES

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Generative AI: Working with Large Language Models	<a href="#">LinkedIn</a>
Nano Tips for Effortless Influence with Shadé Zahrai	<a href="#">LinkedIn</a>
Prompt Engineering for ChatGPT	<a href="#">Coursera</a>
Generative AI with Large Language Models	<a href="#">Coursera</a>
Introduction to Deep Learning & Neural Networks with Keras	<a href="#">Coursera</a>
Python for Data Science, AI & Development	<a href="#">Coursera</a>
Question Generation Using Natural Language Processing	<a href="#">Udemy</a>
Machine Learning with Python	<a href="#">Coursera</a>
Fundamentals of Deep Learning	<a href="#">Nvidia</a>

## TECHNICAL STRENGTHS

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Computer Sciences	NLP, GenAi, Deep Learning, Machine Learning, OOP, OOD, RAG
Programming Languages	Python, C++, JavaScript
Softwares & Tools	Pycharm, VS Code, git version control
ML and DL Frameworks	PyTorch, TensorFlow
Design Pattern for Web	MVC, MVT
Web Frame Work	Django (Expert), FastAPI (Expert), Flask (Beginner)
DataBases	MongoDB, Postgresql, MySQL, Sqlite
Security	Web Application Security Best Practices, JWT Authentication

## EXTRA-CURRICULAR

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- Event Staff at Superior University
  - Student Voice Leader at Superior University
  - Team Management at Superior University
  - Cricketer at Gov. Commerce College
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