

DANIAL REHMAN

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Education

SARHAD UNIVERSITY OF SCIENCE AND INFORMATION TECHNOLOGY	Peshawar, Pakistan
<i>Bachelor of Science, Software Engineering</i>	2023
FAZAIA DEGREE COLLEGE, PAF	Risalpur, Pakistan
<i>Secondary School and College</i>	2018

Professional Experience

CortechSols, Pvt Ltd Islamabad, Pakistan

AI Engineer: September 2023 – September 2024

Conducting thorough code reviews and implementing comprehensive testing protocols. Orchestrating seamless code integrations into the main repository for version control. Designing and implementing robust server-side logic using Python frameworks like Fast API and Django Rest Framework (DRF).

LLM finetuning using peft configurations and quantization (LoRa, QLoRa). Using stable diffusion for computer vision tasks such as real video to animated one using comfy UI

Incorporating advanced AI models, particularly Large Language Models (LLMs) from Open AI and Hugging Face into the backend architecture. Working with Relational Databases such as PostgreSQL and Non-Relational Databases such as MongoDB. Using Vector Databases such as Chroma, Pinecone, Qdrant for efficient data storage and retrieval, enhancing context awareness of (LLMs). Managing deployment processes onto Amazon Web Services (AWS) Elastic Compute Cloud (EC2) instances and handling file storage using AWS Simple Storage Service (S3) buckets. Experienced in working with payment Gateways such as Stripe

PERSONAL PROJECTS:

I have hands-on experience developing machine learning systems, including Action Recognition, Coffee Leaf Disease Detection using CNN, SVM, and Random Forest models. I fine-tuned the Flan-T5 small model with question-answer pairs and curated datasets. My data science projects involved end-to-end processes from data collection to predictive modeling. Additionally, I've worked on numerous computer vision projects.

ONLINE COURSES AND CERTIFICATIONS:

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|---|-----------------|
| – Deep Learning Specialization | Coursera(2024) |
| – Machine Learning Specialization | Coursera (2024) |
| – AI Python for Beginners: Automating Tasks with Python – DeepLearning.AI | Online (2024) |
| – AI Python for Beginners: Basics of AI Python Coding – DeepLearning.AI | Online (2024) |
| – Generative AI with Large Language Models – DeepLearning.AI and AWS | Coursera (2024) |
| – How Diffusion Models Work – DeepLearning.AI | Coursera (2024) |
| – Reinforcement Learning from Human Feedback – DeepLearning.AI | Online (2024) |

Skills:

- Deep Learning (LLM Finetuning, Computer Vision, Stable diffusion, RAG)
- Machine Learning
- AWS (EC2, S3 Bucket, RDS)
- Devops (Docker)
- Python Backend (FastApi, Flask, Django Rest Framework)
- Databases (Postgres, Sqlite, Mongo)