



Mohammad Ali Khan

Software Engineer

Passionate Recently graduated Software Engineer with a CGPA of 3.57 and a focus on Artificial Intelligence, Machine Learning, Deep Learning, and Generative AI through coursework and a final year project on Deep Learning Video Similarity Detection. Seeking an entry-level position in the field of AI, Generative AI dealing with Large Language Models (LLMs), fine-tuning, and Retrieval-Augmented Generation (RAG) to leverage my academic background and project experience.

Contact

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Github

<https://github.com/hmalykhan>

LinkedIn

<www.linkedin.com/in/hmalykhan>

Skills

Python

C/C++

Typescript

Php

Javascript

Jawa

Concepts

Artificial Intelligence

Machine Learning

Deep Learning

Generative Ai

Object Oriented Programming

Data Structure and Algorithm

Education

2020 - 2024

Bachelors of Science, Software Engineering

University of Central Punjab, Lahore

CGPA: 3.57

Major: Artificial Intelligence, Object Oriented Paradigm and Data Structure and Algorithm.

2018 - 2020

Intermediate in Computer Science

Punjab Group of Colleges, Lahore

Major: Maths and Physics.

Projects

Final Year Project

Video Similarity Detection

- Developed a comprehensive model that takes a query video and retrieves the matching video from the reference set.
- Fine tune Vision Transformers on Custom Dataset.
- Used Cosine Similarity method to compare the similarity.
- Utilized deep learning techniques to successfully complete the project.
- Link: <https://github.com/hmalykhan/Final-Year-Project.git>

RAG Based Project

Pdf Question/Answer App

- Retrieval Augmented Generation Based project with hugging face.
- Employed Llama Index for summarization and vectorization.
- Link: <https://github.com/hmalykhan/Pdf-Question-Answer-App.git>

RAG Based Project

Movie Recommendation

- Developed a Retrieval-Augmented Generation (RAG) based project.
- Compare Vector embeddings and compare using techniques.
- Used Hugging face for vector embeddings generation and summerization.
- Link: <https://github.com/hmalykhan/Movie-Recomendation-System.git>

Libraries

Keras

Numpy

Pandas

Frameworks

Gradio

Next.js

Databases

Mongo Db

SQL

Others

Dockers

Github

Linux

Jira

Languages

English

Urdu

Hobbies

Sports

Travelling

Exploration

DSA Based Project

Socila Media App

- C++ based portfolio project of social media app.
- Utilized the most efficient data structures and algorithm techniques for development.
- Featured with Object Oriented Paradigm to follow conventional software engineering practices.
- Built the project using Heapsort, Hash Tables, AVL Trees, Doubly Circular Linked Lists, and Max Heaps.
- **Link:** <https://github.com/hmalykhan/Project.git>

Web Based Project

Dino Market

- Developed a custom eCommerce web application as a portfolio.
- Using latest React based framework Next.js for server side rendering.
- Envolvled the superset of javascript TypeScript for Backend.
- Deployed on Vercel for user presentation and access thorough out the world.
- **Link:** <https://dine-market-1jxtqptma-hmalykhan.vercel.app/>

Courses

Presidential Initiative for Artificial Intelligence

Intermediate to advance course for professionals and students starts over the basic concepts of AI going to the peak of Generative AI through the ML, DL track.

Link: <https://piaic.org>

Object Oriented Paradigm

From Youtube done the Object Oriented Paradigm complete course from well known and prfessional teacher.

Link: https://youtu.be/ASi64_avisg?si=HZeLMBX07GrFNSJq

Data Structure and Algorithm

Done DSA course from youtube from the industry specialist.

Link: <https://youtu.be/NwHBGF1N1Aw?si=oapY6Et9CBcwWBQR>

Python

Playlist of Modern Python for the artificial intelligence from the youtube.

Link: <https://www.youtube.com/live/rwDHhx76MMg?si=gnVXsRJp36Z1Qfvb>

References

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