

Syed Anas Ali

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Education

Information Technology University

Sep. 2019 - May. 2023

B.S. in Electrical Engineering

Lahore, Punjab

Relevant Courses: Object Oriented Programming (C++ & Java), Data Structures and Algorithm (C++), Computer Communication Networks, Operating Systems (C), Embedded Systems (C), Internet of Things (C & Python), Applied Machine Learning (Python).

City School

Sep. 2017 - Jun. 2019

A-Levels in Pre-Engineering

Lahore, Punjab

Bahria Town School

Aug. 2014 - Jun. 2017

O-Levels in Computer Sciences

Lahore, Punjab

Experience

Workforce Commerce

Nov. 2023 - Present

AI Developer

Lahore, Punjab

- Developed an intuitive and interactive AI bots across multiple projects, leveraging large language models such as Cohere AI, Gemini AI, OpenAI's GPT-3 and various Hugging Face models. Applied fine-tuning techniques to diverse pre-trained models and embedding methods for optimized performance.
- Engaged in prompt engineering to develop various AI agents tailored for specific tasks such as student study development programs, article rewriting, and uncensored story teller.
- Employed semantic searching and routing techniques on large datasets stored in vector databases to facilitate fast, accurate, and efficient retrieval based on user queries.
- Designed, developed, and rigorously tested Flask APIs, ensuring seamless integration and robust functionality of the AI systems.
- Implemented quantization using CUDA for optimal model performance on low-end systems and also engaged in deploying ML/AI models on Google Cloud platform for enhanced inference speed.
- Worked on creating python queries and performing asynchronous techniques in it.

Information Technology University

Oct. 2022 - Nov. 2023

Machine Learning Engineer

Lahore, Punjab

- Developed ML based healthcare industry projects by utilizing a single-lead ECG module.
- Crafted interactive visualizations to enhance data insights and aid decision-making.
- Performed pre-processing and feature extraction and data augmentation of ECG datasets.
- Applied various machine learning and deep learning models to predict vascular aging, a cardiovascular disease. Also utilized classification techniques to distinguish between smokers and non-smokers in both genders using ECG datasets.

General Electric

Aug. 2022 - Sep. 2022

Electrical and I&C Engineering Intern

Lahore, Punjab

- Acquired software skills through Maximo implementation and usage.
- Gained proficiency in differentiating instruments and electrical equipment via Piping and Instrumentation Drawing (P&ID) analysis.
- Developed a foundational understanding of Distributed Control System (DCS) and PLC principles.

Azgard Nine Ltd.

Jul. 2022 - Aug. 2022

Information Technology Intern

Lahore, Punjab

- Developed an understanding between the connection of server and client using the shell terminal.
- Learned how to manage files and data using Excel. And to do pre-processing of those files using SQL.

Projects

Fitness gym club web application

HTML, CSS, JavaScript

- Showcasing the gym's regular charges, subscription fees, and a roadmap for achieving a better fit body through visualizations in HTML
- Using JavaScript to ensure the application runs smoothly on both Android and IOS platforms.

Multi-thread: Zipping and unzipping of text files in operating systems

C, Linux

- Utilized OS concepts for thread management and synchronization using semaphores.
- Designed efficient data structures and algorithms, employing dynamic arrays for handling large text data.
- Ensured error-free code with Valgrind and Helgrind for memory leak detection and syntax optimization in loops.

Leadership and Volunteering

Institution of Engineering and Technology (IET)

Oct. 2022 - Jun. 2023

Management Coordinator

- Orchestrating coding sessions, and events to enhance skills and encourage continuous learning.

Honours and Awards

IELTS English Test 2023

- Obtained 7 out of 9 total band score on IELTS (International English Language Testing System).

IEEE Engineering Innovation 2023

- Ranked 1st/50 in final year project poster exhibition 2023.

PHEC Innovation Expo 2022

- Presented final year project named "Prediction of Vascular Ageing using ECG" at the PHEC expo.

Skills

Languages:

Python, C, C++, SQL, HTML, CSS, R, MATLAB

Technologies & Tools:

TensorFlow / PyTorch, Scikit-Learn, QLora, SFT and PEFT, LlamaIndex, LangChain, Transformers (Hugging Face), Vector Databases, Flask API's, Google Cloud, Linux

Certifications:

React Basics, Meta, Coursera.

HTML and CSS in Depth, Meta, Coursera.

Data Science Foundations: Fundamentals, LinkedIn.

Google Data Analytics, Coursera.

Using Python to Interact with the Operating System, Google, Coursera.