Ahmad Raza

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Achievements

- **Finalist Team in Edge Runners International Hackathon (Sweden)** Selected finalists out of 2420 members and 126 teams, and our project ranked in top 5. [View Email]
- **Ranked in my session with top GPAs** Classified in top 3 students of our session securing the highest CGPA of 3.81/4.00 with GPA of 3.93. [View DMC]
- **Meta Hacker Cup -**Ranked 2,294th out of 13,262 international contestants in the Meta Hacker Cup Practice Round 2024 and ranked 7730th out of 22,100+ international Contestants in round-1.[View Certificate]
- **350+ LeetCode Questions Solved** demonstrating analytical thinking, problem-solving skills and significantly enhanced my logical reasoning also elevated my ability to tackle complex challenges. [View Profile]
- **100% Scholarship in Intermediate** Got 100% scholarship in intermediate.
- **Mentored 3-Day Wordsprint Developer Hackathon 5.0** organized by iCodeGuru in collaboration with WPBridage. [Certificate]
- **Global Nominee in NASA Space App Challenge** Out of 9,900 teams and 60, 900 members, our team is selected in 940 global nominees. [Profile]

Education

University of Engineering and Technology   Lahore, Pakistan
BS Software Engineering. CGPA: 3.81/4.00   September 2023–
Present

International Competitions and Hackathons

Lablab.ai Hackathons   Stockholm,Sweden (Remote)
- Developed **Explosion Search** in **Edge Runners**, which reduces computational power for conversions of tokenizers.Out of 2420 members & 126 teams, selected as finalists and our project ranked in top 5. [View Email]
- Collaborated with an international team in the AI Startup **hackathon**, built **Volund-An AI ChatBot** using OpenAI, Gemini, streamlit and python which helps customers to get info about the products.
- Participated in **Llama 3.2 hackathon** and developed **Fillipy** using Llama 3.2 models, Streamlit, Python. A web app helps in filling the PDF forms.
- Attended **Falcon Hackathon** & developed a project named **Medicano** using Falcon LLM, Python, Google Map API, a web application provides medication, diagnosis, nearby pharmacies, health blogs & alternatives of the medicine.
- Contributed by developing REST APIs with Django in Generative-AI Hackathon for a web app **AW Wingman**.
- Created **Llamario** in Edge Runners 3.2, for image processing and social media content generation. [Certificate]

NASA Space Apps Challenge   Washington, US (Remote)
- Worked with an International team from Honolulu, US on lunar and mars earthquake's correct data modeling. Where we trained our model on NASA's provided dataset.
- Contributed by creating a **Demo App** by using a model from huggingFace. [Certificate]
- Out of a competitive field of 15,500+ teams and 95,000+ participants, our team achieved the honor of being selected among the top 940 global nominees. [Profile]

Meta Hacker Cup   Menlo Park, California (Remote)
- Participated in Meta Hacker Cup, ranked at **2293th** out of 13,300+ participants in the practice round. Proceeded to Round-1 and ranked **7730th** out of 22,100+ participants and solved 1 problem out of 5.[Certificate]

CALICO Contest University of California, Barkeley (Remote)
- Participated in UC-Berkeley CALICO, ranked at **198th** out of 865 teams and solved 7 problems out of 11, got a score of 503.

Experience

CodSoft -C++ Developer Remote - Kolkata, India
- Developed and enhanced skills in Object Oriented Programming C++
- Contributed to projects involving advanced OOP concepts, demonstrating strong analytical and problem-solving abilities.[Certificate]

Generative-AI
- Completed 10+ AI and 3 RAG projects using different LLMs, Libraries and APIs.
- Certified Generative-AI developer from California, US. [View Certificate]
- Delivered a workshop on RAG app to 70+ participants. [View Google Colab]
- Built **Language Translator** by using transformers, streamlit for frontend and pytorch. [View Here]
- Developed a RAG based application to read user PDFs and to answer user's queries from that PDF using the RAG based model of LLAMA, and LLaMA-2 model from Hugging Face to create coherent text. [View Here]
- Developed an AI app for children named **Chilidron** using pyttsx3, torch and gtts.[View Here]
- Developed **CulturalGenei** which gives cultural insights, **Llamario** for image processing & content generation, Volund, StudySage, **ReceiptBanao** for generating receipt based on daily eatables, **Clienviron** for blogs and **Chilidron** -an AI app for childrens.

Technical   Skills

Programming Languages	C/C++, Python
Libraries	Streamlit, Pandas, Numpy, Matplotlib
Web & Database	SQL, SQL server, MongoDB, React.js, express.js, node.js
Version Control	Git, Github
IDE	Visual Studio, VS Code, Pycharm

Leadership Work

- Led a team of International members in **Falcon Hackathon** and developed **Medicano** -a health based chatbot.
- Guided a team of my peers on a C# project, where I presented the idea of a **Tuition Management System.** The concept stemmed from my 4+ years of experience as a tutor, addressing many of the challenges I encountered during that time.

Volunteer Work

- Delivered a workshop on the **module** "How to develop a RAG application" organized by iCodeGuru and Aspire Pakistan, Silicon Valley, US. [Recording]

- Developed and explained Retrieval Augmented Generation app using Ollama's llama3 model from Langchain with gradio for frontend on google colab to 70+ active participants, overall 250+ viewers on YT. [View Google Colab]
- Mentored WordSprint Hackathon 5.0 organized by iCodeGuru in collaboration with WPBrigade and addressed the problems participants were facing during this 3 day hackathon. [Certificate]

Projects

Car Rental System
Tools: C++ , Visual Studio

- Developed a car rental system as a semester project for selection, booking management, invoicing, efficient tracking of vehicle presence & customer transactions
- Used database management, C++ concepts.

Learning Management System (LMS)
Tools: C++ , Visual Studio
- Developed a Learning Management System (LMS) using C++ (OOP) principles. [View Repository]
- Designed as a black console-based application, the system facilitated course management, student enrollment, grading functionalities, Attendance, Events, Libraries, Allotments etc.

Blood Donation Application
Tools: C#, SQL, MS sql server
- Collaborated with a fellow to develop a Blood Donation Application using C# for the front end and MS SQL for the backend database.

Bakerio
Tool: python, pandas, streamlit
- Developed an app "**Bakerio**" for bakery owners. [View Repository]
- This project improved my ability to manage history and streamline bakery operations through effective idea sharing.

LangToLang -LanguageTranslator
Tool: python, streamlit, huggingFace, transformers
- Developed Generative AI app "**LangToLang**" for translation of text from many to many languages. [View Demo]
- Improved my ability to manage usage and implementation of huggingFace models to generate amazing AI apps with built in models and libraries. [View Repository]