

Fareedullah

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CGPA 3.36/4.00, Duolingo Score: 130/160, IELTS 6.5, Int'l Hackathon Finalist, Competitive Programmer, EdTech Trainer.

With a Computer Science and Machine Learning background, I focus on continuous learning and problem-solving. I have participated in multiple international hackathons and regularly try to solve complex challenges on LeetCode, honing my skills in cutting-edge technologies. I am keen to contribute to impactful projects and apply my experience in engineering management to drive innovation in technology and education.

ACHIEVEMENTS

- **Lablab NEXT:** Secured 3rd place in the International Hackathon–Build Your AI Startup, winning cash prizes and being shortlisted for the NEXT Program.
- **Falcon Hackathon:** Contributed to the event, collaborating with a global team to explore Falcon LLMs using the AI71 API to develop creative solutions.
- **LeetCode:** Solved 150+ problems in Data Structures and Algorithm.
- **AI Agents Hack:** Leveraged MindsDB to train the model and integrated agents for user interaction.
- **Meta Hacker Cup 2024:** Currently participating in the competition to enhance problem-solving skills and coding expertise.
- **Wordsprint Hackathon:** Participated in and engaged with a talented team to develop WordPress plugins.

EDUCATION

- **Abasyn University ([link](#))** Peshawar, Pakistan
BSc in Computer Science CGPA: 3.36 / 4.00 *Feb 2020 – Mar 2024*
 - **Final Year Research Thesis:** Facial Expression Recognition ([PDF](#)) ([GitHub](#))
 - Conducted in-depth study on facial expression recognition, leading to the design of a custom Convolutional Neural Network (CNN).
 - Implemented the model into a user-friendly web app using Streamlit for real-time facial expression recognition.
 - Conducted comprehensive evaluation and optimization of the CNN, earning an 'A' grade for the project.

TECHNICAL SKILLS

- **Programming Languages:** Python, Dart, Java, SQL
- **ML Libraries:** Tensorflow, Keras, Numpy, Pandas, Matplotlib, Scikit-learn, OpenCV
- **Web Development:** HTML, CSS, Bootstrap, Tailwind, Flask, Laravel
- **Mobile Development:** Flutter, SwiftUI
- **Database Management:** MYSQL, Firebase, MongoDB, Subapase
- **Tools & Platforms:** Git, GitHub, Docker, Postman, Visual Studio Code, Jupyter Notebook

PROFESSIONAL EXPERIENCE

- **CodeAlpha ([link](#))** Lucknow, India – Remote
Machine Learning Intern *Jun 2024 – Aug 2024*
 - Developed and fine-tuned models for image recognition, recommendation systems, and automated essay scoring driving accuracy and efficiency.
 - Led data cleansing, feature engineering, and model optimization efforts to enhance performance and reliability across various applications.
 - Conducted thorough model evaluations and iterative improvements, contributing to scalable, data-driven solutions aligned with business objectives.

- **Beta Byte Technology ([link](#))**

Peshawar, Pakistan

Flutter Developer Intern

Jul 2023 – Oct 2023

- Actively contributed to crafting innovative mobile applications infused with AI capabilities using the Flutter framework, enhancing user experiences and functionality.
- Collaborated on integrating AI features into applications, including but not limited to image recognition and recommendation systems, elevating the app's intelligence and usability.
- Played a pivotal role in refining the user interface and experience, ensuring seamless navigation and captivating visuals to delight users.
- Engaged in rigorous testing and debugging processes to ensure the reliability and performance of applications across different platforms and devices.

INTERNATIONAL HACKATHONS

- **Diet Vision**

Python (Tensorflow, OpenCV, Keras), AWS, Flask, Streamlit

[GitHub](#)

3rd Place, Lablab NEXT Hackathon

- Contributed as part of a team that secured 3rd place, developing an AI-driven diet tracking system.
- Collaborated on integrating CGM and computer vision to classify food images and analyze nutritional content.
- Applied machine learning with Python and TensorFlow to assess calorie and nutrient intake from food images.
- Helped develop a cloud-based backend using AWS and Flask, and a real-time interface with Streamlit for dietary analysis.

- **Gynae Genius**

Python (Langflow, RAG, OpenAI, Cohere's API)

[GitHub](#)

- Developed a gynecology chatbot using Langflow and RAG for advanced conversational AI and contextual responses.
- Integrated Cohere's API for precise natural language understanding and generation.
- Built an intuitive web interface with Streamlit, offering seamless user interaction.
- Deployed the application on Vercel for scalable, reliable performance and easy accessibility.

- **DocXsmart**

Python (Tensorflow, Keras), Falcon LLM, AI71 API

[GitHub](#)

- Developed a multilingual assistant for document tasks like summarizing, extracting information, and translating.
- Integrated Falcon LLM and AI71 API for accurate, real-time response generation based on user inputs.
- Supported multiple document formats and automatic language detection for a seamless user experience.
- Enabled real-time summarization, translation, and extraction through a user-friendly Streamlit interface.

VOLUNTEER WORK

- **iCodeGuru**

Santa Clara, California – Remote

Moderator & Trainer

Jun 2024 – Present

- Taught Python, Data Structures, and Algorithms for underprivileged students of Pakistan. ([See here](#))
- Mentored DET aspirants, guiding test strategies and language improvement techniques. ([See here](#))
- Volunteered to conduct IELTS and DET sessions for beginner learners. ([See here](#))

CONTRIBUTIONS

- Write and publish articles on AI, Machine Learning, and emerging technologies on [Medium](#) and [LinkedIn](#).
- Conduct webinars on competitive programming, including session on "[Guide to Meta Hacker Cup 2024](#)".
- Organize workshops on professional development, such as "[How to craft your CV according to international standards](#)".