

# 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 am particularly interested in pursuing a Ph.D. to delve deeper into my research interests and make a meaningful contribution to the existing body of knowledge.

## ACHIEVEMENTS

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- **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

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- **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

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- **Programming Languages:** Python, Dart, Javascript, SQL
- **ML Libraries:** Tensorflow, Keras, Numpy, Pandas, Matplotlib, Scikit-learn, OpenCV
- **Web Development:** HTML, CSS, Bootstrap, Tailwind CSS, 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

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- **CodeAlpha ([link](#))** Lucknow, India – Remote  
*Machine Learning Intern* Jun 2024 – Sep 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

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- **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

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- **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

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- 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 a CV according to international standards](#)".