

# Waqar Ali

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## EDUCATION

**Pak-Austria Fachhochschule** [[Bachelor's Transcript](#)] Sept. 2022 – Jun. 2026  
*Bachelor of Science in Computer Science* **CGPA: 3.82/4.0** *Class Rank: 03/120* *Mang, Haripur*

- 2× Rector's List honoree (top 1% of students)
- 4× Dean's List award for academic excellence
- 6× 100% Merit-based Scholarship recipient
- **Final Year Project: DetectForge: Multimodal Deepfake Detection System** (*Advisor: Dr. Arshad Iqbal*)
  - \* Developed a multimodal deepfake detection system that analyzes images, videos, and audio.
  - \* Designed an ensemble architecture combining Xception for visual analysis and Wav2Vec for audio.
  - \* Deployed an interactive dashboard that translates complex model inferences into structured forensic reports.

## RESEARCH INTERESTS

**Core Machine Learning:** Computer Vision, Deep Learning Architectures, Multimodal AI, and Neural Networks.

## EXPERIENCE

**Pak-Austria Fachhochschule : Institute of Applied Sciences and Technology** Sept. 2024 – Present  
*Teaching Assistant* *Mang, Haripur*

- Maintain records of student progress, attendance, and assignments.
- Evaluate and provide feedback on student assignments under the teacher's guidance.
- Facilitate communication between teachers and students to address academic needs

**National Centre for Physics** [[Experience Certificate](#)] July 2024 – August 2024  
*Machine Learning Intern* *Islāmābād, Pakistan*

- Demonstrated proficiency in Python, utilizing it extensively for data analysis and model development.
- Designed, implemented, and trained deep learning models using Convolutional Neural Networks (CNNs) and Artificial Neural Networks (ANNs) to enhance system performance.
- Leveraged pre-trained models such as ResNet, VGG16, and VGG19 to accelerate development and achieve high accuracy in various machine learning tasks.
- Utilized YOLOv5 for image detection projects, significantly advancing object detection accuracy in challenging datasets.

## CERTIFICATIONS

**Data Scientist - Machine Learning Career Path – Codecademy** [[Certificate](#)] June 2025

- Certified in Machine Learning after completing rigorous modules covering Python, pandas, scikit-learn, data cleaning, visualization, statistics, and neural networks.

## HONORS & ACHIEVEMENTS

- Selected twice as **Section Leader for Stanford's Code in Place 2025** [[Digital Credential](#)]
- Selected for an **exchange semester at FH Upper Austria – Hagenberg Campus**; accepted but grant not awarded [[Acceptance Letter](#)]
- Participated in **6+ international hackathons and competitions**, building AI-driven projects.
- Solved all 9/9 puzzles at **CS50x Puzzle Day 2025, 2026** as part of a team [[Puzzle Certificate](#)]
- Led as **Instructor for Python Training Session under GDGoC** [[Experience Certificate](#)]
- Completed **Machine Learning Internship at National Centre for Physics** in 2024 [[Internship Certificate](#)]
- Organizer at **Artificial Intelligence Conference and Expo (AICE) 2024** [[Organizer Certificate](#)]
- Won **Best Project Award** at 6<sup>th</sup> URAAN Project Exhibition among 40+ entries [[Award Letter](#)]
- Worked as **Web Application Developer** at Agriculture Extension Office Haripur in 2023 [[Experience Letter](#)]
- Awarded for securing **First Position in 12th Grade** by APSACS in 2021 [[Result Certificate](#)]
- Led as **Volleyball Team Captain** in 10th Grade, 2019 [[Leadership Proof](#)]

## PERSONAL PROJECTS

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- Healthcare Translation Web App with Generative AI** [\[GitHub Link\]](#) Apr. 2025
- Built a multilingual healthcare communication tool integrating **Azure Translation Services**, **OpenAI GPT-3.5 Turbo**, and speech recognition for real-time medical translation.
  - Delivered live translated audio output, improving accessibility for patients and providers in multilingual settings.
- Flower Species Classification Using DenseNet201** [\[GitHub Link\]](#) Mar. 2025
- Developed a deep learning model using **DenseNet201** with transfer learning to classify 102 flower species from the Oxford dataset.
  - Optimized preprocessing and data organization with custom Python scripts to enhance training accuracy and evaluation performance.
- Web Application for Agriculture Extension Office, Haripur** [\[Contract Post\]](#) Nov. 2023 – Feb. 2024
- Developed a MERN-stack web app to digitize paper-based workflows for the Agriculture Extension Office, Haripur
  - Deployed the system on a VPS with role-based access, enabling supervisors to monitor employee performance and data collection in real time.

## INTERNATIONAL HACKATHONS

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- NeoSentimental – NASA International Space Apps Challenge 2025** [\[Certificate\]](#) Oct. 2025
- Built **NeoSentimental**, a machine learning application using NASA's asteroid datasets to predict **Potentially Hazardous Asteroids (PHAs)**.
  - Implemented ML models achieving **79.2% accuracy**, delivering real-time insights via an API and Swagger interface.
- Highlander Companion – (LeadWithAgent Hackathon)** [\[Submission Badge\]](#) May 2025
- Developed **Highlander Companion**, a neuroadaptive GenAI interface that adapts in real time to user emotion.
  - Designed to explore emotionally aware interfaces that foster cultural intelligence and deepen user reflection during human-AI interactions.
- LeCommis – AI-Powered Meal Planner (lablab.ai -Raise Your Hack)** [\[Submission\]](#) July 2025
- Built **LeCommis**, an AI-powered meal planner that generates personalized recipes based on users' nutrition, preferences, and allergies.
  - Implemented AI-driven logic to suggest three optimized meals with ingredients, prep time, and nutrition facts.
- InboxIQ – AI Email Triage Assistant (lablab.ai - AI Genesis Hackathon)** [\[Submission\]](#) May 2025
- Collaborated with an international team across multiple time zones to develop **InboxIQ**, an AI-powered email triage assistant.
  - Implemented backend logic to organize, prioritize, and suggest responses for incoming emails using large language models.
- CS50x Puzzle Day 2025 – Harvard University** [\[Certificate\]](#) May 2025
- Participated as part of a team in Harvard's **CS50x Puzzle Day 2025**, solving all 9 out of 9 challenging logic puzzles.
  - Collaborated on analytical problem solving and pattern recognition to complete puzzles under time constraints.

## VOLUNTEERING

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- Google Developer Group on Campus** [\[Community Page\]](#) Mang, Haripur  
*Lead* Oct. 2025 – Present
- Lead the GDG on Campus community and support organizers in impactful initiatives.
  - Oversee events, workshops, and activities on emerging technologies.
  - Connect students with industry experts and the GDG global network.
- Co-Lead* Oct. 2024 – Oct. 2025
- Coordinated with volunteers to ensure smooth event execution.
  - Organized and personally conducted workshops on AI, Web, and Cloud.
  - Maintained alignment with the GDG central team and shared impact reports.
- Stanford Code in Place** [\[Digital Credential\]](#) Remote  
*Section Leader (Volunteer Instructor)* Apr. 2025 – Jun. 2025, Apr. 2026 – Present
- Selected twice for Stanford University's Code in Place program (2025, 2026).
  - Taught Python programming to global cohorts through weekly live sessions.
  - Mentored students, graded assignments, and improved learning outcomes through personalized feedback.

## ARTICLES

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Medium.com [\[Profile\]](#)

- Same Meaning, Different Words: The Hidden Challenge of NLP in Medicine [\[Read\]](#)
- Are We Forgetting Urdu as Our National Language? – The importance of Urdu in society. [\[Read\]](#)

Writing.io [\[Profile\]](#) – Freelance Content Writer (Contract)

- Top 4 Benefits of Elk Antlers for Dogs – Health and safety benefits of elk antlers as chew toys. [\[Read\]](#)
- Why Are Chihuahuas So Small? – A deep dive into breed history and size factors. [\[Read\]](#)
- Top Facts Before Getting a Micro Goldendoodle – Key traits and ownership considerations. [\[Read\]](#)
- Cavapoochon's The Unknown Breed – Exploring this rare triple-cross breed. [\[Read\]](#)
- Top 13 Quiet Hypoallergenic Dogs Worldwide – Ideal breeds for allergy-sensitive owners. [\[Read\]](#)
- Top 15 Calm Small Dog Breeds That Don't Shed – Breeds perfect for small spaces [\[Read\]](#)
- Top 9 Amazing Benefits of Pumpkins for Dogs – Nutritional value and recommended servings. [\[Read\]](#)
- Rare Breed: Black Labradoodles – A look into hypoallergenic traits and breed history. [\[Read\]](#)
- Homemade Mongolian Sauce Recipe – Simple steps and cultural origin. [\[Read\]](#)
- Making Mongolian BBQ at Home – How to prepare Mongolian BBQ with household ingredients. [\[Read\]](#)

## SKILLS

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**Web Development:** JavaScript, Python, React, Node.js, Express.js, FastAPI, HTML, CSS, REST APIs

**Machine Learning:** Scikit-learn, CNNs, Transfer Learning, Data Preprocessing, Model Evaluation

**Deep Learning:** TensorFlow, Keras, PyTorch (beginner), Transformers

**Generative AI:** OpenAI GPT APIs, LLMs, Groq, Prompt Engineering

**Databases:** MongoDB, MySQL, SQL, PostgreSQL, Firebase, Supabase

**Cloud & DevOps:** Microsoft Azure, VPS Deployment, Git, GitHub, Postman

**Tools:** VS Code, Google Colab, Jupyter, LaTeX

**Interests:** Teaching, Chess, Book Reading, Community Building, Productivity Tools, Hackathons

## REFERENCES

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|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <b>Dr. Arshad Iqbal</b> — Assistant Professor<br><i>Sino-Pak Center for Artificial Intelligence (SPCAI)</i>   | arshad.iqbal@spcai.paf-iasat.edu.pk<br><i>PAF-IASAT</i> |
| <b>Dr. Jamil Ahmed</b> — Assistant Professor<br><i>Faculty of Electrical, Computer, IT and Design</i>         | jamil.ahmed@fecid.paf-iasat.edu.pk<br><i>PAF-IASAT</i>  |
| <b>Mariam Saqban</b> — Senior Machine Learning Engineer<br><i>AHOY Tech, Dubai</i> — <a href="#">LinkedIn</a> | masagban@gmail.com<br><i>AHOY Tech, UAE</i>             |