

## Adeeba Rafi

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### EDUCATION

#### Hazara University

Mansehra, Pakistan

Bachelor of Science in Computer Science | GPA: **3.44 / 4.0**

2020-2024

**Relevant Coursework:** *Data Structures & Algorithms, Artificial Intelligence, Natural Language Processing, Database Systems, Operating Systems, Computer Networks, Object-Oriented Programming, Human-Computer Interaction, Information Security, Python Programming*

### ACHIEVEMENTS

- **IELTS:** Overall, 6.5 band score
- **@LeetCode:** Solved 40+ Data Structures & Algorithms problems([Link](#))
- Solved all 9 out of 9 puzzles in **CS50x Puzzle Day 2025** organized by **Harvard University**([Link](#))
- **@lablab.ai:** Participated in 4+ International Hackathons([Link](#))
- **International DOGE Hackathon:** Created AI tax assistant chatbot that helps people & government([Link](#))
- Participated in **Advent of code 2024** & solved competitive questions for 25 days([Link](#))
- Ranked 133rd out of 536 teams internationally in the **MIT Winter Coding Contest 2025**([Link](#))
- **AI for connectivity hackathon:** Built an AI tool to predict & optimize IT infrastructure maintenance, improving system reliability([Link](#))
- **Alstronauts Space Agents on a Mission Hackathon:** Collaborated in a team to develop *The Smart Space Habitat Manager*, an AI-powered system for real-time space habitat management([Link](#))
- Participated in the **2024 CALICO UC Berkeley Coding** competition ([Link](#))
- **Generative AI Hackathon with IBM Granite Summary:** Developed BizNexus-AI, an AI-powered analytics platform that helps businesses overcome data fragmentation by providing predictive insights and automated decision-making across HR, e-commerce, and business intelligence([Link](#))

### TECHNICAL SKILLS

**Programming Languages:** Python, HTML/CSS/Bootstrap, C/C++, Flutter/Dart, C#

**Machine Learning & Deep Learning:** PyTorch, TensorFlow, Keras, Scikit-Learn, Streamlit

**Operating Systems:** Windows, macOS

**Developer Tools:** Git, GitHub, Google Colab, Jupyter Notebook, PyCharm, Visual Studio

**AI & Data Science Platforms:** Hugging Face, Kaggle

### ACADEMIC PROJECTS

#### Real-Time Facial Landmark Detection System | ([GitHub](#))

- Developed a system using OpenCV and MediaPipe to track facial features in live video, identifying key landmarks on a person's face in real time. This project showcased the integration of computer vision and machine learning for applications like augmented reality and emotion detection.
- **Technologies Used:** OpenCV, MediaPipe, Python
- **Key Learnings:** Real-time image processing, facial feature tracking, and practical implementation of computer vision techniques

#### Salon Booking Application | ([GitHub](#))

- Developed a salon booking application that allows women to book appointments from home, browse available services, and view beauticians along with their charges.

- Integrated an AI-powered chatbot for automated customer support, enhancing user interaction & providing real-time assistance.
- **Technologies Used:** HTML, Bootstrap, Firebase, Flutter/Dart

#### Translation App | ([GitHub](#))

- Developed a multilingual translation app using Streamlit and MarianMTModel from Hugging Face, enabling real-time text translation across various languages with an intuitive user interface.
- This project demonstrated the integration of NLP models with interactive web applications.
- **Technologies Used:** Streamlit, MarianMTModel, Hugging Face, Python
- **Key Learnings:** Natural language processing, model integration, and building user-friendly AI powered applications.

### WORK EXPERIENCE

#### Change Mechanics Pvt. Ltd | ([Link](#))

Jan 2024 – March 2024

##### App Developer

- Built cross-platform apps using Flutter & Dart.
- Implemented Firebase Authentication & Firestore for data management.
- Developed Cloud Functions for backend automation.
- Designed responsive UI with HTML, CSS, and Bootstrap.

### LEADERSHIP & VOLUNTEER EXPERIENCE

#### Teaching Experience |

**ICodeGuru, USA (Remote)**

##### Python Programming Instructor

Sept 2024 – March 2025

- Led Python programming sessions for 100+ underprivileged students, covering core topics like variables, data types, input/output, loops, and functions
- Conducted classes via Zoom, created quizzes and assignments, and supported students in building a strong programming foundation

#### Volunteer Experience

**Hazara University, KPK**

##### Graphic Designer

2020 –2024

- Designed posters and social media content to promote student project exhibitions and STEM awareness at the university
- Assisted faculty in organizing weekly on-campus events by providing visual materials and event coordination support

#### Leadership Experience

**Lablab.ai, California**

##### Hackathon Team Leader

2024 –2025

- Led two hackathon teams as a team leader, where I learned to manage time under pressure, communicate clearly, and coordinate tasks effectively to keep the team focused and deliver results on time

### INTERNATIONAL HACKATHONS & COMPETITIONS

#### AI Tax Assistant Chatbot | [DOGE Hackathon](#) | ([Demo Video](#) | [GitHub](#))

- Worked on the chatbot's front-end UI, designing and developing the interface for a seamless user experience.
- Worked on project documentation and presentation, explaining the chatbot's functionality, architecture, and real-world impact.
- Tech Stack: HTML, CSS, Bootstrap, Python, Flask, PostgreSQL, BERT, Hugging Face

#### Maintenance Predictive System for Data Centers | [AI for connectivity hackathon](#) | ([Demo Video](#))

- Worked on developing an interactive UI using Gradio, allowing users to interact with the predictive system.
- Built the predictive AI model, analyzing CPU load, storage usage, and temperature to forecast maintenance needs.
- **Tech Stack:** Python, Pandas, NumPy, Scikit-Learn, Gradio, Hugging Face

#### **Smart Space Habitat Manager | *[Alstronauts Space Agents on a Mission Hackathon](#)* | [Demo Video](#)**

- Worked on implementing AI models for optimizing oxygen supply, temperature control, and astronaut health monitoring.
- Worked on project documentation and presentation, highlighting technical solutions and resource optimization strategies.
- Tech Stack: Python, Streamlit, Pandas, NumPy, Scikit-Learn, Random Forest Regressor, Render

#### **Coding Competitions**

- Qualified for the UC Berkeley Coding Competition, competing against top programmers and refining my algorithmic thinking.
- Actively participated in Advent of Code, solving daily challenges that pushed my problem-solving skills and logical reasoning.
- Ranked 133rd out of 536 teams internationally in the MIT Winter Coding Contest 2025, a testament to my perseverance and ability to tackle complex problems under pressure.

#### **REFERENCES**

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**Waqas Ahmed:** Doctoral Researcher, Murdoch University, Australia (Waqas.ahmed@murdoch.edu.au)

**Dr. Ali Syed Saqlain:** Ph.D., Artificial Intelligence, Beijing, China, Assistant Professor at Dept. of CS, GPGC (saqlain.ncepu@gmail.com)

**Syed Zulqarnain Shah:** Lecturer at Dept. of Computer Science, GPGC (zulqarnain@gcm.edu.pk)

**ANDRIAMBELOZAKA Tianasoa Avotriniaina Liane:** CEO/Founder of Maternal AI, Madagascar (anielandriam26@gmail.com)