Adeeba Rafi

Nationality: Pakistani | adeebarafi12@gmail.com | +92 (330)034-1253 | LinkedIn | Github

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)
- **@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)
- **AIstronauts 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 |(Recording)

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.

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِيْمِ

HAZARA UNIVERSITY

Mansehra, Pakistan

The University in recognition of the fulfilment of prescribed requirements has conferred upon **Adeeba Rafi** Daughter of **Rafiullah** the Degree of **Bachelor Of Studies In Computer Science** in the examination held in Spring Semester 2024. She was enrolled in the session Fall Semester 2020 and secured CGPA **3.44** .

Controller of Examinations

Registrar

Vice Chancellor

HAZARA UNIVERSITY
MANSEHRA, PAKISTAN

TRANSCRIPT

Roll No.	COMSC-F20-013	Registration No:	20-MSR-BS-92
Name	Adeeba Rafi	Session	Fall Semester 2020
Father Name	RAFIULLAH	Degree	Bachelor of Studies in Computer Science
Student CNIC	13503-9432260-6	Mode of Study	Regular-Full Time
Date of Birth	26-Sep-2001	Campus	Government Postgraduate College Mansehra
Gender	Female	Result Date	23-Jul-2024

Code	Title	CrHr	Total Marks	Obtained Marks	%age	Grade	GPs	Remarks
Fall Semester 2020								
BCS-111	ITC	3	100	76	76	B+	10.80	Pass
BCS-114	Calculus & Analytical Geometry	3	100	81	81	A-	12.00	Pass
BCS-115	English Composition & Comprehension	3	100	81	81	A-	12.00	Pass
BCS-117	Physics	3	100	75	75	B+	10.50	Pass
BCS-112	Programming Fundamental	4	100	67	67	C+	10.80	Pass
	ESCH: 16.0	SGPA: 3.51		ECCH: 16.0		CGPA: 3.51		
Spring Semester 2021								
BCS-123	Digital Logic Design	4	100	74	74	B	13.60	Pass
BCS-234	Communications Skills	3	100	67	67	C+	8.10	Pass
BCS-476	Principle of Management	3	100	53	53	D	3.90	Pass
BCS-121	Object Oriented Programming	4	100	70	70	B-	12.00	Pass
	ESCH: 14.0	SGPA: 2.69		ECCH: 30.0		CGPA: 3.12		
Fall Semester 2021								
BCS-126	Tech & Business Writing	3	100	68	68	C+	8.40	Pass
BCS-122	Data Structure	4	100	66	66	C+	10.40	Pass
BCS-233	Linear Algebra	3	100	70	70	B-	9.00	Pass
BCS-113	Discrete Structure	3	100	63	63	C	6.90	Pass
BCS-127	Professional Practices	3	100	81	81	A-	12.00	Pass
	ESCH: 16.0	SGPA: 2.92		ECCH: 46.0		CGPA: 3.05		
Spring Semester 2022								
CS244	Web Engineering	3	100	85	85	A	12.00	Pass
CS232	Database System	4	100	70	70	B-	12.00	Pass
CS242	Computer Organization & Assembly Language	4	100	81	81	A-	16.00	Pass
MTH202	Differential Equations	3	100	82	82	A-	12.00	Pass
FIN350	Financial Management	3	100	70	70	B-	9.00	Pass
	ESCH: 17.0	SGPA: 3.59		ECCH: 63.0		CGPA: 3.20		
Fall Semester 2022								
CS124	Probability & Statistics	3	100	62	62	C-	6.60	Pass
CS311	Design & Analysis of Algorithms	3	100	80	80	A-	12.00	Pass
CS212	Theory of Automata	3	100	79	79	B+	11.70	Pass
CS301	Software Engineering	3	100	75	75	B+	10.50	Pass
CS202	Operating System	4	100	84	84	A-	16.00	Pass
MTH201	Multivariable Calculus	3	100	65	65	C	7.50	Pass
	ESCH: 19.0	SGPA: 3.38		ECCH: 82.0		CGPA: 3.24		
Spring Semester 2023								
CS310	Compiler Construction	3	100	80	80	A-	12.00	Pass
CS302	Computer Networks	4	100	65	65	C	10.00	Pass
CS312	Artificial Intelligence	4	100	76	76	B+	14.40	Pass
MTH213	Numerical Computing	3	100	71	71	B-	9.30	Pass
IRS111	International Relations	3	100	80	80	A-	12.00	Pass
	ESCH: 17.0	SGPA: 3.39		ECCH: 99.0		CGPA: 3.27		
Fall Semester 2023								
SE210	Human Computer Interaction	3	100	80	80	A-	12.00	Pass
CS322	Digital Image Processing	4	100	88	88	A	16.00	Pass
ISL100	Islamic Studies	3	100	79	79	B+	11.70	Pass
AI314	Natural Language Processing	3	100	74	74	B	10.20	Pass
CS402	Information Security	3	100	80	80	A-	12.00	Pass
BCS-475	Senior Project Design-I	3	100	85	85	A	12.00	Pass
	ESCH: 19.0	SGPA: 3.89		ECCH: 118.0		CGPA: 3.37		

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MANSEHRA, PAKISTAN

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Date of Birth	26-Sep-2001	Campus	Government Postgraduate College Mansehra	
Gender	Female	Result Date	23-Jul-2024	

Spring Semester 2024

Code	Course	CH	Max	Obtained	Total	Grade	GP
CS410	Parallel & Distributed Computing	3	100	85	85	A	12.00 Pass
TEL485	Final Year Project - II	3	100	80	80	A-	12.00 Pass
CS424	Visual Programming	3	100	87	87	A	12.00 Pass
PS100	Pakistan Studies	3	100	82	82	A-	12.00 Pass
PSY100	Introduction to Psychology	3	100	80	80	A-	12.00 Pass

ESCH: 15.0   SGPA: 4.00   ECCH: 133.0   CGPA: 3.44

Total Marks: 4100.0
Obtained Marks: 3,097.00
Percentage: 75.54 %

Verified By
Assistant Controller of Examinations
Errors and omissions are subject to subsequent rectification.
Print date: 13/08/2024

Controller of Examinations
Hazara University Mansehra

IELTS™

Test Report Form

ACADEMIC

Centre Number	PK361	Date	10/DEC/2024	Candidate Number	502948

Candidate Details

Family Name	RAFI
First Name(s)	ADEEBA
Candidate ID	1350394322606

Date of Birth	26/09/2001	Sex (M/F)	F	Scheme Code	Private Candidate

Country or Region of Origin	
Country of Nationality	PAKISTAN
First Language	URDU

Test Results

Listening	6.0	Reading	6.5	Writing	6.0	Speaking	6.5	Overall Band Score	6.5	CEFR Level	B2

Administrator Comments

Recognising organisations must verify this score at ielts.org/verify

Validation stamp

VALIDATION STAMP · CAMBRIDGE ENGLISH/BRITISH COUNCIL/IDP · IELTS
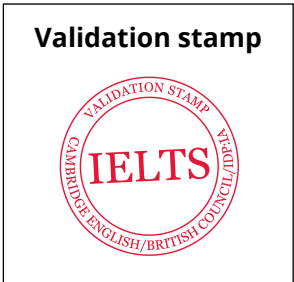
Date	11/12/2024	Test Report Form Number	24PK502948RAFA361A

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