

MUTAHRA KHALID BUTT

G-6/3, Islamabad | mutahrakhalid447@gmail.com | 0331-5415567

SUMMARY

Passionate professional with expertise in Computer Science and Artificial Intelligence. Eager to teach and share knowledge in programming, AI, machine learning, and related areas.

EXPERIENCE

Visiting Lecturer

Sep 2025 – Present

Department of Computer Science, SZABIST University, Islamabad Campus

EDUCATION

Master of Science in Computer Science (MSCS)

Sep 2022 - Mar 2025

COMSATS University Islamabad - Islamabad Campus

- **CGPA:** 3.44/4.0

Master of Computer Science (MCS)

Feb 2020 - Jan 2022

National University of Modern Languages Islamabad

- **CGPA:** 3.50/4.0

SELECTED PROJECTS

Case-Based Reasoning for Medical Report Generation

- Developed a RAG-based System integrating image-language grounding to generate accurate and explainable radiology reports.
- Achieved improved results on the indiana University chest X-ray dataset compared to existing methods.

Crop Prediction System

- Developed a web-based Crop Prediction System using machine learning algorithms to forecast suitable crops based on soil and environmental data.

SKILLS

- **Programming Languages:** Python, C/C++, Java
- **Specialized Skills:** Machine Learning, Deep Learning
- **Soft Skills:** Problem-solving, Communication, Teamwork, Adaptability

RESEARCH PUBLICATION

- "Medical Visual Question Answering using Contrastive Language-Image Pre-training." Proceedings of the 2024 International Conference on Frontiers of Information Technology (FIT), IEEE, pp. 1–6, December 9, 2024.

REFERENCES

- Dr. Tehseen Zia, Associate Professor of Computer Science, COMSATS University Islamabad, Email: tehseen.zia@comsats.edu.pk
- Dr. Akber Abid Gardezi, Assistant Professor of Computer Science, COMSATS University Islamabad, Email: akber.gardezi@comsats.edu.pk



COMSATS University Islamabad

TRANSCRIPT

0117407

Date: 10-Mar-2025

Certified that MUTAHRA KHALID BUTT d/o AHSAN-UL-HAQ KHALID BUTT Registration No. CIIT/FA22-RCS-018/ISB Department of Computer Science has completed and passed all the requisite courses / examinations for the degree of Master of Science in Computer Science, on 14th January 2025, taught as a Regular Mode of study from Islamabad Campus,
Date of Birth : 09-Jun-1999



The details of the courses passed are as follows:

Course Code	Semester / Course Title	Cr.	LG	CP	Course Code	Semester / Course Title	Cr.	LG	CP
	Fall 2022					Spring 2024			
CSC511	Theory of Programming Languages	3	A-	10.98	CSC541	Big Data Analytics	3	A	12.00
CSC602	Advanced Operating Systems	3	B-	7.98	CSC683	Advanced Algorithm Analysis	3	B+	9.99
CSC607	Research Methodology	1	B	3.00	CSC800	MS Thesis		IP	
	Spring 2023					Fall 2024			
CSC604	Advanced Computer Architecture	3	A-	10.98	CSC800	MS Thesis	6*	Approved	
CSC668	Machine Learning	3	B+	9.99					
CSC677	Advanced Topics in Data Warehousing	-	WD	-					
	Fall 2023								
CSC535	Natural Language Processing	3	B+	9.99					
CSC613	Advanced Topics in Artificial Neural Networks	3	A-	10.98					

Thesis Title: **Case-Based Reasoning Approach for Medical Report Generation**

Total Credit Hours Registered: 31
 *Discounted Credit Hours: 0
 Net Credit Hours Passed: 31
 Total CP: 85.89
 CGPA*: 3.44

*Credit Hours allocated to Thesis are not counted for calculation of CGPA

Controller of Examinations



Serial No: 118247



Registration No: CIIT/FA22-RCS-018/ISB

COMSATS University Islamabad

MUTAHRA KHALID BUTT d/o AHSAN-UL-HAQ KHALID BUTT

Of

Islamabad Campus

has been conferred upon the degree of

Master of Science in Computer Science

Given on this Fifteenth day of March two thousand and Twenty Five at Islamabad

Date of Issuance: 15th March 2025



A handwritten signature in blue ink, appearing to be "N. du".

Controller of Examinations

A handwritten signature in blue ink, appearing to be "Khalid Butt".

Rector

A handwritten signature in blue ink, appearing to be "J. O. Ch".

Registrar



**NATIONAL UNIVERSITY OF MODERN LANGUAGES
ISLAMABAD - PAKISTAN**

Serial No. 019476

TRANSCRIPT

Name: Mutahra Khalid Butt
Father Name: Ahsan-UI-Haq Khalid Butt
Reg No: ML.ISB-SP20/MCS-1023
Programme: Master of Computer Science

Roll No: 6673
Session: Feb 2020 to Jan 2022
Course Completion:- 20th April 2022

Course Title	Cr. Hrs	Max Marks	Marks Obtained	Grade
Semester - I				
1 Operating System Concepts	3	100	88	A2
2 English Comprehension & Communication Skills	3	100	80	A2
3 Fundamental of Algorithms	3	100	90	A1
4 Discrete Structures	3	100	83	A2
5 Introduction to Computer Programming	4	100	90	A1
Semester - II				
1 Object Oriented Programming	4	100	80	A2
2 Automata Theory	3	100	77	A3
3 Computer Networks	3	100	66	C1
4 Database Management Systems	4	100	84	A2
5 Digital Logic & Design	3	100	80	A2
6 Data Structures	4	100	88	A2
Semester - III				
1 Software Engineering	3	100	71	B2
2 Computer Architecture	3	100	83	A2
3 Web Programming	3	100	87	A2
4 Advance Object Oriented Programming	4	100	91	A1
5 Data Communication	3	100	77	A3
Semester - IV				
1 Artificial Intelligence	3	100	75	B1
2 Visual Programming	4	100	70	B2
3 Compiler Construction	3	100	84	A2
4 Technical & Business Writing	3	100	64	C1
Project:- Crop Prediction System	6	200	108	D
	72	2200	1716	A3

CGPA: 3.50 / 4.00

Percentage: 78.00

Grade: A3



Dated: 09-06-2022

Note : * Marks and "F" grades are not counted towards aggregates.(if any)

Director Examinations
MC. Dr. A. H.

Serial No: 029596

Roll No: 6573

Registration No: ML-ISB-SP20/MCS-1023

National University of Modern Languages
Islamabad - Pakistan

Rs.700



HIGHER EDUCATION COMMISSION
PAKISTAN



2434507

Muhammad Zulfiqar
Attestation Officer
13 FEB 2025
Higher Education Commission
Government of Pakistan
Islamabad



Session...Feb. 2020...Jan. 2022

This is to certify that

Mutabra Khalid Butt Son / daughter of Ahsan-Ul-Haq Khalid Butt

has obtained the degree of

Master of Computer Science
from this university at the examinations held in January 2022

Securing CGPA 3.50/4.00 and was placed in the grade A3

Director Examinations



Rector

Dated: 14 Jun 2022

Note: Transcript of Marks is issued separately