



# Muhammad Ikhalas

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## ● ABOUT ME

As a Deep Learning Researcher and Software Engineer, I am passionate about leveraging advanced deep learning techniques to solve complex problems and increase the model's accuracy. With over a year of experience in deep learning and software development, including a paper submission to CVPR, I have developed a strong foundation in AI research and implementation with paper writeup skills. My academic background, with a Bachelor's degree from BUITEMS (2024) with a CGPA of 3.45. I am looking forward to furthering my expertise through a Master's program, where I can contribute to cutting-edge research and have publications in deep learning.

## ● EDUCATION AND TRAINING

01/09/2020 – 01/09/2024 Quetta, Pakistan  
**BACHELOR OF STUDIES IN COMPUTER SCIENCE** Balochistan University of Information Technology, Engineering and Management Sciences

**Website** <https://www.buitms.edu.pk> | **Field of study** Information and Communication Technologies | **Final grade** 3.45/4.0 | **Level in EQF** EQF level 6 | **Thesis** Automatic Report Generation From Medical Images

## ● WORK EXPERIENCE

01/06/2024 – CURRENT Zhob, Pakistan  
**MACHINE LEARNING AND DEEP LEARNING** ZHOBATS SOFTWARE HOUSE

**Research Publication:** Authored a research paper on Teresa: Uncertainty Removal from Chest X-ray Report Generation, submitted to the Conference on Computer Vision and Pattern Recognition (CVPR) 2025.

**Face Recognition System:** Engineered a deep learning-based face recognition system, enhancing security measures for client applications.

**Natural Language Processing (NLP):** Built an NLP model for sentiment analysis, accurately classifying customer feedback to inform product development decisions.

**Anomaly Detection:** Developed an unsupervised learning model to detect anomalies in network traffic, improving threat detection capabilities.

**Recommendation System:** Created a collaborative filtering-based recommendation system that increased user engagement by 25% on an e-commerce platform.

**Time Series Forecasting:** Applied recurrent neural networks (RNNs) to forecast sales data, enhancing inventory management system.

**Automatic Report Generation from Medical Images:** Developed a deep learning model for automatic report generation from medical images, enhancing diagnostic efficiency and accuracy.

**Business or Sector** Information and communication | **Department** Software House | **Email** [info@zhobats.com](mailto:info@zhobats.com) |

**Website** <https://zhobats.com>

**E-commerce Website:** Led the development of a scalable e-commerce platform, implementing features such as product catalogs, shopping carts, and secure payment gateways, resulting in a 25% increase in online sales for a company.

**School Attendance System:** Designed and developed school attendance system to streamline attendance tracking for students.

**Business or Sector** Information and communication | **Department** Software House | **Email** [info@eziline.com](mailto:info@eziline.com) |

**Website** <https://www.eziline.com/>

**Blogging Website:** Developed a dynamic blogging platform that enables users to create, edit, and manage blog posts with ease.

**Online Quiz Application:** Designed and implemented an interactive online quiz application for educational purposes.

**E-Commerce Website:** Led the development of a comprehensive e-commerce platform tailored to client specifications.

**Business or Sector** Information and communication | **Department** Software House | **Email** [info@eziline.com](mailto:info@eziline.com) |

**Website** <https://www.eziline.com/>

## ● **RESEARCH AND SUBMISSIONS**

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**Teresa: Uncertainty Removal from Chest X-ray Report Generation, submitted to the Conference on Computer Vision and Pattern Recognition (CVPR) 2025.**

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We have submitted a paper titled "Teresa: Uncertainty Removal from Chest X-ray Report Generation" to the Conference on Computer Vision and Pattern Recognition (CVPR) 2025. This pioneering work addresses the challenge of mitigating uncertainty in medical image interpretation, specifically focusing on chest X-rays. By developing advanced methodologies to enhance the accuracy and reliability of automated report generation, our research aims to improve diagnostic confidence and patient outcomes in clinical settings.

## ● **PROJECTS**

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**Automatic Report Generation from Medical Images.**

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Designed and developed a web application that utilizes deep learning to analyze medical images and generate accurate diagnostic reports.

**Detecting Pneumonia from Chest X-Rays**

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Developed a deep learning model to detect pneumonia from chest X-ray images, enhancing diagnostic accuracy and supporting early detection of respiratory conditions.

**Brain Tumor Detection.**

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Implemented a deep learning model for detecting brain tumors from medical images, improving early diagnosis and supporting accurate treatment planning.

**Image Classification Using Deep Learning**

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Developed and deployed deep learning models for accurate classification of diverse image datasets, optimizing performance and enabling advanced visual recognition capabilities.

**Brain Tumor Segmentation.**

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Developed a model for precise segmentation and highlighting of brain tumors in medical images, enabling detailed visualization for improved diagnosis and treatment planning.

● **DIGITAL SKILLS**

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Python | Mathematical Foundations | Machine Learning Principles | Neural Network Architectures | Deep Learning Frameworks | Data extraction, Data preprocessing, Data visualization, Data cleaning | Model Evaluation and Tuning | Natural Language Processing (NLP) | Computer Vision: | Web Development | Database Management | Version Control Systems

● **CERTIFICATES**

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**Python Fundamentals**

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Link <https://www.datacamp.com/completed/statement-of-accomplishment/track/dd63c3ba7cb66bf21dad98b072b7323f4d1f53fc>

**Machine Learning Fundamentals**

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Link <https://www.datacamp.com/completed/statement-of-accomplishment/track/a34601af66519bd01a40a4ae6eed46efc24e38fe>

**Introduction to Deep Learning in Python**

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Link <https://www.datacamp.com/completed/statement-of-accomplishment/course/c241ee44970d843ed6085015d1022d3159d5f8e4>

**Artificial Intelligence (AI) Concepts in Python**

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Link <https://www.datacamp.com/completed/statement-of-accomplishment/course/a77a00dcf308e6188443a09280bd5031106dc2ba>

**Python Data Science Toolbox (Part 1)**

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Link <https://www.datacamp.com/completed/statement-of-accomplishment/course/e2a2ce947a57af173fceb1fac9b5ee1779c1e94>

**Python Data Science Toolbox (Part 2)**

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Link <https://www.datacamp.com/completed/statement-of-accomplishment/course/a52387413863eeaac2b570e20541589f501b44ad>

**Technical Support Fundamentals**

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Link <https://www.coursera.org/account/accomplishments/verify/8JR3ECZDA6H8>

● **LANGUAGE SKILLS**

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Mother tongue(s): **PASHTO**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	B2	B2	C1	C1
URDU	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **HONOURS AND AWARDS**

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10/04/2021

**Merit Scholarship Awarding institution: – Balochistan University of Information Technology, Engineering and Management Sciences**

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Merit Scholarship for Academic Excellence

01/02/2022

## Chief Minister Balochistan Laptop Awarding institution – Balochistan University of Information Technology, Engineering and Management Sciences

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Awarded a laptop for outstanding academic performance based on CGPA

### ● **HOBBIES AND INTERESTS**

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#### **Reading Books**

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Reading Books is My Favorite Hobby

#### **Research**

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I am Interested in Research and Publication

#### **Playing Chess**

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Chess is My Favorite Game

#### **Technologies**

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Interest in Technology

### ● **RECOMMENDATIONS**

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**Dr. Muhammad Waqas** Assistant Professor

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Assistant Professor, National University of Computer and Emerging Sciences, Karachi, Pakistan

**Email** [waqas.sheikh@nu.edu.pk](mailto:waqas.sheikh@nu.edu.pk)

**Mr. Syed Bilal Ahsan** Lecturer

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Lecturer, National University of Computer and Emerging Sciences, Karachi, Pakistan

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