

Kazim Ali

Date of birth: 23/04/1983 | **Nationality:** Pakistani | **Gender:** Male | **Phone number:** (+92) 3008573765 (Mobile) |

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● **ABOUT ME**

Experienced Computer Science professional with over 15 years of teaching experience in the Government Education Department of Punjab, Pakistan. Expertise in Computer Science courses, Machine Learning, Deep Learning, Computer Vision, and Natural Language Processing. Proven track record of research and development, alongside extensive experience in managing educational systems and computer labs. Passionate about advancing technological education and contributing to cutting-edge research.

● **WORK EXPERIENCE**

07/07/2009 – CURRENT Hafizabad, Punjab, Pakistan

COMPUTER SCIENCE PROFESSIONAL PUNJAB SCHOOL EDUCATION DEPARTMENT

Computer Science Professional

Punjab Education Department, Hafizabad, Punjab, Pakistan

July 2009 – Present

- Over 15 years of experience teaching Computer Science to high school students.
- Developed and delivered curriculum content in various areas of Computer Science.
- Managed the student information system and served in charge of the computer lab.
- Conducted research and development projects in Machine Learning, Deep Learning, and Computer Vision.
- Mentored students in practical computer science applications and experimental setups.

Software Instructor

Punjab Vocational Institution, Sukheke Mandi, Hafizabad, Pakistan

July 2008 – July 2009

- Taught software development courses with a focus on practical skills.
- Guided students in project-based learning and real-world software applications.

● **EDUCATION AND TRAINING**

06/03/2017 – 02/02/2023 Lahore, Pakistan

PHD IN COMPUTER SCIENCE University of Central Punjab Lahore

Website <https://www.ucp.edu.pk>

26/09/2011 – 29/04/2014 Lahore

MS COMPUTER SCIENCE Lahore Leads University

Website <https://leads.edu.pk>

15/10/2003 – 02/12/2005 Lahore, Pakistan

M.SC IN COMPUTER SCIENCE Government College University Lahore

Website <https://gcu.edu.pk/>

08/01/2001 – 27/08/2023 Lahore, Pakistan

B.SC University of the Punjab

Website <http://www.pu.edu.pk/>

01/04/1999 – 27/08/2021 Hafizabad

F.SC The Board of Intermediate and Secondary Education, Gujranwala

Website <https://www.bisegrw.edu.pk/>

Website <https://www.bisegrw.edu.pk/>

● **RESEARCH THESIS/PROJECT**

20/10/2020 – 28/02/2022

PhD Thesis by Kazim Ali titled "Improving Robustness of Convolutional Neural Network against Adversarial Attacks in Computer Vision"

● **PUBLICATIONS**

2024

Enhanced Road Safety through Real-Time Crack Detection Using Advanced YOLO Algorithms

Under Review

Kazim Ali, Muhammad Shahid Bhatti, Samina Akram, Mohammed A. Al Ghamdi, and Sultan H. Almotiri

2024

Efficient Hybrid Encoder-Based Deep Learning Framework for Early Detection of Dementia from Alzheimer's Data Collection

Under Review

Kazim Ali, Muhammad Shahid Bhatti, Mohammed A. Al Ghamdi , Sultan H. Almotiri and Samina Akram

2024

Adversarial Robustness of Vision Transformers VS Convolutional Neural Networks

Kazim Ali; Muhammad Shahid Bhatti; Atif Saeed; Atifa Athar; Mohammed A. Al Ghamdi

2023

De-Noising Brain MRI Images by Mixing Concatenation and Residual Learning (MCR)

Kazim Ali, Adnan N. Qureshi, Muhammad Shahid Bhatti, Abid Sohail, Muhammad Hijji and Atif Saeed

2022

Defending Adversarial Examples by a Clipped Residual U-Net Model

Kazim Ali, Adnan N. Qureshi, Muhammad Shahid Bhatti, Abid Sohail, Muhammad Hijji and Atif Saeed

2021

Deep Image Restoration Model: A Defense Method Against Adversarial Attacks

Kazim Ali1, Adnan N. Qureshi, Ahmad Alauddin Bin Arifin, Muhammad Shahid Bhatti, and Abid Sohail

2021

Restoration of Adversarial Examples Using Image Arithmetic Operations

Kazim Ali and Adnan N. Quershi

2017

A Study of Software Development Life Cycle Process Models

Kazim Ali

2017

A Comparative Study of Well Known Sorting Algorithms

Kazim Ali

● **PROGRAMMING SKILLS**

CURRENT

Python, C, C++, Matlab, PHP, Javascript, TensorFlow, Keras, Pytorch, scikit-learn, scipy, numpy, OpenCV, NLTK, Matplotlib, Geo-Gebra

● **ONLINE TEACHING EXPERIENCE**

CURRENT

Python Programming Language Course From Scratch With Real World Examples by Kazim Ali
available online at: https://www.youtube.com/playlist?list=PL2VsR2Z8jtTWaXg6C4ejWRj_XQDdVJna-

CURRENT

Master Computer Vision in OpenCV With Python by Kazim Ali Online Course at <https://www.youtube.com/playlist?list=PL2VsR2Z8jtTUV-80qQ9VoqiKqgDOr7Ojr>.

CURRENT

Natural Language Processing with Python by Kazim Ali Online Course at https://www.youtube.com/playlist?list=PL2VsR2Z8jtTVsSd_jYrkRvYRfFpPvDEPj.

CURRENT

Computer Vision with Deep Learning (Tensorflow, Pytorch, OpenCV) by Kazim Ali Online Course at <https://www.youtube.com/playlist?list=PL2VsR2Z8jtTXLdiQJKbQTd0cvA6ctyT-H>.

Machine Learning Crash Course (Supervised and Unsupervised) in Urdu/Hindi

<https://www.youtube.com/playlist?list=PL2VsR2Z8jtTUqnJ6lqfbHvZJx4zwhEcy3>

● **MACHINE LEARNING AND DEEP LEARNING CERTIFICATIONS**

CURRENT

Machine Learning A-Z- Hands-On with Python & R In Data Science from Udemy.

CURRENT

Deep Learning A-Z- Hands-On with Python (Keras and Tensorflow) from Udemy.

CURRENT

Master Computer vision in Python OpenCV3 and Machine Learning from Udemy.

CURRENT

Deep Learning and Computer Vision A-Z: OpenCV, SSD, and GANs from Udemy (Keras and Tensorflow).

CURRENT

Deep Learning: Convolutional Neural Networks with Python ((Keras and Tensorflow)) from Udemy.

CURRENT

Modern Generative Adversarial Networks in Python (Keras and Tensorflow) online course from Udemy.

CURRENT

Database Administrator from Punjab University College of Information Technology.

● **LANGUAGE SKILLS**

Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

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