

Muhammad Usman Khan

Gold Medalist — AI/ML Engineer — Full Stack Developer

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Skills

Programming	Python, C++, Java, JavaScript, PHP, Assembly
Frameworks & Libraries	PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib, Bootstrap
Web Technologies	HTML, CSS, JavaScript, Ajax, React, Flask
Databases	SQL, MongoDB
AI/ML Domains	Classical ML, Deep Learning, NLP, GANs, RL, Search, CSP, GA
Tools	Git, LaTeX, JavaFX, Java Swing, C++/CLI

Projects

- Ticket Booking Management System ([Live Link](#))
- Catering Management System – Java & MySQL
- Facial Recognition App – FaceNet, PyTorch, Flask ([Code](#))
- Deepfake Image Generator – GANs (DCGAN, WGANP), PyTorch ([Code](#))
- Object Detection App – YOLO, PyTorch ([Code](#))
- Game Agent using Reinforcement Learning
- NLP Author Detector – Text Matching for Plagiarism Detection
- CBIR System – Image Processing
- InvoBorda Voting System – Game Theory
- Urdu-English Machine Translation – Seq2Seq Models

Work Experience

Lecturer – Higher Education Department, Khyber Pakhtunkhwa *Aug 2023 – Present*
Taught courses including Programming Fundamentals, AI, ANN, NLP, Assembly, and Web Dev.

Instructor – FAST National University, Islamabad *Aug 2021 – Jul 2023*
Courses: Programming, OOP, and Artificial Intelligence.

IT Lecturer – Liaqat Institute of Medical & Applied Sciences *Sep 2020 – Aug 2021*
Taught Introduction to Computing.

IT Lecturer – Oxford Education Academy *Aug 2019 – Aug 2021*
Taught CS concepts including software/hardware, DB, and programming basics.

Education

MS in Artificial Intelligence, FAST National University, Islamabad *2023*
GPA: 3.50 / 4.00

BS in Information Technology, University of Malakand *2020*
GPA: 3.87 / 4.00 — **Gold Medalist**

Grade 12 – BISE Malakand (72%) *2015*

Grade 10 – BISE Malakand (62%) *2013*

Achievements

- **Gold Medal** – Highest CGPA in BS (IT), University of Malakand, 2020

Certifications

Introduction to Cybersecurity – Cisco Networking Academy via Credly

Issued: July 2025 ([View Certificate](#))

Publications

HEADoC: Highly Efficient and Accurate Document Classifier Optimized Using Semantic Distances

Authors: Muhammad Usman Khan, Dr. Muhammad Adnan Tariq, Muhammad Shaoor Siddique

Submitted to: Springer's Progress in Artificial Intelligence (IF: 2.1)

Status: Under Review — Manuscript ID: PRAI-D-24-00445R1

References

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