

Curriculum Vitae

Romaan Khan

Lecturer (Computer Science) | Data Analyst | Machine Learning Researcher
Peshawar, Pakistan

Email: khan90928@gmail.com

Phone: +92 343 8984078

Career Objective

Motivated and research-oriented MS Computer Science graduate with strong expertise in Machine Learning, Deep Learning, Robotics applications, and Control Systems fundamentals. Currently working as, a Lecturer at **Agriculture Peshawar Pakistan**, with hands-on experience in AI model development, data-driven problem-solving, and academic research. Seeking a fully funded PhD opportunity in Marine Robotics, Robotics, Control, or Electronic Information at Zhejiang University, where I can contribute to advanced research and expand my scholarly impact.

Education

MS Computer Science

City University of Science and Information Technology Peshawar, Pakistan---2022

Key Areas: Machine Learning, Deep Learning, Control Systems, Robotics Concepts, Computer Vision

BS Computer Science

Bacha Khan University Charsadda KPK, Pakistan — 2017

Relevant Areas: Algorithms, Embedded Systems, Programming, Networks

Research Interests

- Machine Learning
 - Deep Learning
 - Disaster Management
 - Precision Agriculture
 - Pattern Recognition
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Technical Skills

Programming

Python, C/C++, JavaScript, SQL

AI & Machine Learning

- Deep Learning (CNN, RNN, Autoencoders)
- Image Processing & Enhancement
- Object Detection (YOLO, Faster R-CNN)
- Scikit-learn, TensorFlow, PyTorch

Tools & Technologies

Jupyter, Google Colab, Git, Docker (basic)

Work Experience

Lecturer, Department of Computer Science

Agriculture University Peshawar — Sep-2025 to Present

- Teaching Software Engineering, AI and Computer Programming courses.
- Supervising student projects in machine learning and software development.
- Conducting lab sessions, assessments, and academic advisory tasks.

IT Instructor

GOVT: Technical & Vocational Center Dargai Malakand KPK, Pakistan — [2022–2025]

- Delivered IT, computer fundamentals, and programming courses to undergraduate and diploma-level students.
- Trained students in MS Office, web technologies, basic networking, and system troubleshooting.
- Prepared course materials, conducted assessments, and provided mentoring to students.
- Managed classroom environments, ensuring effective learning and student engagement.

Lecturer Computer Science

RIPHAH International College Dargai Malakand Campus Khyber Pakhtoon Khwa, Pakistan — [2022–2024]

- Teaching Web Development, AI and Computer Programming courses.
- Supervising student projects in software development.
- Conducting lab sessions, assessments, and academic advisory tasks.

Data Analyst / ML Practitioner

Freelance / Private Work

- Analyzed datasets, built predictive models, and developed automated data pipelines.
 - Developed ML/DL models such as classification, clustering, NER, and summarization using Hugging Face.
 - Created visualizations and dashboards for data insights.
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Projects & Research Work

1. Deep Learning Image Super-Resolution Model

- Developed CNN-based super-resolution model for image enhancement.
- Improved low-resolution images using upscaling and residual learning techniques.

2. Resume Analyzer (NER + Classification)

- Extracted key entities using NER models.
- Built classifier to match resumes with job categories.

3. Software Engineering Course Management System

- Designed and supervised student development of a course management platform.
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Publications

- Masroor Shah, Fazal Malik, Muhammad Suliman, Noor Rahman, Irfan Ullah, Sana Ullah, **Romaan Khan**, & Salman Alam. (2024). Dark Data in Accident Prediction: Using AdaBoost and Random Forest for Improved Accuracy. *Journal of Computing & Biomedical Informatics*, 7(02). Retrieved from <https://jcbi.org/index.php/Main/article/view/531>
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Achievements & Responsibilities

- Taught undergraduate students with excellent feedback.
 - Mentored more than **50** student projects.
 - Conducted quizzes, assignments, midterms, and finals for Software Engineering courses.
 - Organized academic tasks and classroom management.
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Languages

- English (Fluent)
 - Urdu (Native)
 - Pashto (Fluent)
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References

- **DR. IFTIKHAR ALAM** (Associate Professor /City University of science and Information Technology Peshawar, Department of Computer Science)
Email: iftekhhar127@gmail.com
Mobile: +92 345 5622299
- **DR. SHAHAB HAIDER** (Associate Professor / Department of Computer Science, City University of Science and IT, Peshawar kpk, Pakistan)
Email: shahab@cusit.edu.pk
Mobile: +92 345 9234602