

Tajmir Khan

AI/ ML Researcher | Lecturer

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HONORS & ACHIEVEMENTS

- **3+ research publications** in reputed journals under **Springer and Elsevier** publishers([link](#))
- **Global Nominee** at NASA Space Apps Challenge 2025, selected from 11,500+ projects worldwide([link](#))
- **M(IT)2 Winter 2025 Informatics Tournament**: Achieved **Rank 178** in MIT's competitive programming tournament([link](#))
- Participant, **CALICO Fall 2025** in International Programming Contest (Team *Ensemble of Logic*)([link](#))
- **Top 20** in Pakistan, Advent of Code 2025 in Global algorithmic programming challenge. ([link](#))
- **Participant**, Meta Hacker Cup 2024([link](#)).
- Solved over **140+** Data Structures and Algorithms problems on **LeetCode** using Python([link](#))
- **Teaching Experience**: Lecturer at a top university in Pakistan

EDUCATION

Quaid-I-Azam University, Islamabad, Pakistan (**QSR**: 301-350 in CS) Aug 2019 – Apr 2022
M. Phil Computer Science: **CGPA: 3.42/4.00**
Thesis: A Multimedia Vertical Web Search Query Modification Framework Using a Relevance Feedback Approach

Northern University Pakistan Nov 2015 – Mar 2018
BS Computer Science: CGPA: 3.45/4.00
Project: Tailor Management System ([Project link](#))

WORK EXPERIENCE

Volunteer (Teacher and Moderator of DSA, IETLS)- ICodeGuru) Aug 2025 – Present

- Teaching and moderating online sessions for **DSA (Data Structures & Algorithms)** and **IELTS (Reading & Listening)**.

Lab Instructor (OOP, DSA, DBMS) - Quaid-I-Azam University, Islamabad Jan 2024 – Present

- Conducted lab sessions for **Object-Oriented Programming, Data Structures & Algorithms**, and **Database Management Systems**.
- Assisted students with practical coding assignments and project work.
- Supported faculty in preparing lab materials and evaluating student performance.

Lecturer - Federal Urdu University, Islamabad, Pakistan [link](#) Oct 2024 – Aug 2025

- Delivered lectures and conducted practical sessions for undergraduate courses.
- Prepared course material, assignments, and exams.

Android developer - Leap App Solution, Peshawar, Pakistan Sep 2017 – Aug 2019
Developed and maintained Android applications using **Java and Android Studio**. Implemented UI designs, database integration, and app functionality.

- Android Java Learning Archive Github: [link](#), Small Project [link](#)
 - Personal archive of Android learning exercises covering Java, Firebase, Maps, RecyclerView, Notifications, and more.
- HealthReporter — Java Developer (Laboratory Project, Islamabad) [HealthReporter - java](#),
 - Developed Java-based solutions for a **healthcare reporting system** used in a laboratory setting.

- Designed and implemented **backend features**, including data processing and report generation modules.

PUBLICATION

Tajmir khan, Rashid, U.*, & Khan, A. R. (2024). **End-to-end pseudo relevance feedback based vertical web search queries recommendation approach**. Multimedia Tools and Application [link](#)

Khan, A. R, Rashid, U & **Tajmir Khan** (2025). User-Focused Faceted Aggregated Exploratory Multimedia Search Results Framework [Under Review].

Tajmir Khan, Khan, A. R, Rashid, U Ahmad Naveed , Alshara Mohammed Ali(2024). End-to-end vertical web search pseudo relevance feedback queries recommendation software. SoftwareX. DOI: [link](#)

INTERNATIONAL HACKATHONS

Aria & Allegro Multimodal Hackathon | [Certificate](#)

- Developed an AI-powered application using Aria and Allegro models to generate high-quality answers and videos from text prompts.
- Built with Python and Django, featuring step-by-step guidance and seamless multimodal content creation.

LLaMA-3 Hackathon | [Certificate](#)

- Designed and submitted a complete application VisionAI using Python and Django.
- Served as AI/ML Engineer, responsible for full application integration and deployment.

Falcon International Hackathon | [Certificate](#)

- Actively participated with a focus on AI/ML development and Streamlit-based applications.
- Team Lead, overseeing project architecture and development workflow.

Edge Runners 3.2 Hackathon | [Certificate](#)

- .Participated in the Edge Runners Hackathon with a focus on AI/ML technologies and rapid prototyping.

Agentic AI Hackathon – IBM watsonx Orchestrate | [Certificate](#)

- Participated in an international hackathon exploring **agentic AI systems** using **IBM watsonx Orchestrate**.

Recommendations

A Prof. Umer Rashid (QAU)

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A. Prof. Onaiza Maqbool (QAU)

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A. Prof. Rabeeh...(HOD, QAU)

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