

# 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

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**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

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### **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

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**A Prof. Umer Rashid (QAU)**  
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