



Nomaan Khan Dasti

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Objective:

To contribute to research in Human Activity Recognition (HAR), Mobile Computing, and Artificial Intelligence (AI) for healthcare and assistive technologies. I am particularly interested in developing wearable-based systems that utilize machine learning and sensor fusion to model human arm movements, with applications in remote health monitoring, rehabilitation, and assistive devices. I am also interested in leveraging Edge AI for real-time data processing and improved system efficiency.

Education

- MS Computer Science (2017–2019) **Xian Jiao Tong University, Xian, PR. China.**
- BS Computer Science (2011–2015) **COMSATS University Islamabad, ICT Pakistan.**
- FSc Pre-Engineering (2010–2011) **Tameer-e-Naue Taunsa BISE DG Khan. Pakistan.**
- Metric(Biology) (2006-2008) **Govt H/S Taunsa Sharif BISE DG Khan. Punjab Pakistan.**

Work Experience

- **Lecturer Computer Science (From March 2026- Date)**
University of Sahiwal, Sahiwal
- **Visiting Lecturer (May 2025 – Jan 2025)**
Ghazi University Dera Ghazi Khan
- **Vice Principal & Lecturer IT (Nov 2020 – Mar 2025)**
SPR College affiliated with Ghazi University, DG Khan
- **Visiting Lecturer (Sep 2019 – Sep 2020)**
Federal Urdu University Islamabad
- **Admin IT & Instructor (Aug 2016 – Jul 2017)**
SPIST Institute DG Khan
- **Data Analyst (Oct 2016 – Jul 2017)**
PITCO, Germany, Consultant at SAAF PANI Project
- **Web Admin & IT Instructor (Apr 2016 – Aug 2016)**
TEVTA Center Taunsa Sharif
- **IT Administrator – PM Internship (Jul 2015 – Dec 2015)**
Office of District Education Officer DG Khan

Research Thesis

Modelling and Validation of Human Arm Posture Using Kinematics and OpenSim 4.0 for Human Activity Recognition.

Supervisor: **Professor Cai Zhongmin**

Research focused on mathematical modelling of arm motion using forward kinematics and validation using OpenSim simulation.

Research Interests

- Human Activity Recognition using AI
- Pre-Disease Analysis using Deep Learning
- Internet of Things (IoT)
- Mobile Computing

Publications

Locate power meter in distribution system based on power flow analysis and voltage drop method (DOI: 10.5281/zenodo.5732469)

Impact of Training Data Size on Model Accuracy and Computational Efficiency in Deep Learning Based Medical Image Diagnosis (2025)

Technical Skills

- Programming: C, C++, C#, Python, MATLAB
- Web: HTML, CSS, MySQL, WordPress
- AI: Machine Learning, Deep Learning, Digital Image Processing
- Tools: OpenSim 4.0, Unity3D, Kinect V2, Visual Studio, Photoshop, Maya3D, LaTeX, Overleaf, Dreamweaver, MS Office

Workshops and Seminars

- November 2024 – NCEAC Online SAR Process Training (2-Day Workshop)
- September 2025 – Organizer & Participant, 2-Day Workshop on AI-Driven Innovation, Ghazi University DG Khan
- July 2020 – Silk Road Training Program Workshop on AI for COVID-19 (Online, XJTU China)
- September 2018 – Silk Road Training Program Workshop on Big Data and Deep Learning (XJTU China)
- March 2015 – 2-Day Unity3D Workshop (Campus)
- Participated in Pak-China Business Forum events (2012–2015)

Certifications

- Experience AI – Machine Learning and Deep Learning Training (Aug 2021)
- Artificial Intelligence Certification – PIAIC Faisalabad (Dec 2019)
- AI for Everyone – 6 Week Online Course

Awards

- Alumni Abassador of Xian Jiaotong University-(20192-2020)
- Participated in 3 International Marathons in China (2018)
- Volunteer and Runner in Campus Marathon (2018)
- Volunteer in events organized by International School of XJTU China
- Certificate of Appreciation – Debate Competition COMSATS Islamabad (2014)
- 1st Prize – Poetry Competition (Mother Tongue Day) COMSATS Islamabad (2012)
- 1st Prize Bait-Baazi (2012) and 2nd Prize (2015)

Language

English – Good

Chinese – Basic

German – Beginner

References

Available upon request