Dr. Izaz Ahmad Khan

Assistant Professor | Department of Computer Science, Bacha Khan University Charsadda
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EDUCATION

PhD, Computer Science — **2022**
University of Engineering and Technology (UET), Peshawar, Pakistan
Dissertation: *Reducing Resource Collisions in D2D Vehicular Communication*

Master of Networking — **2011**
Melbourne Institute of Technology, Melbourne, Australia

Bachelor of Science (Telecommunication Engineering) — **2008**
National University of Computer and Emerging Sciences (NUCES), Pakistan

RESEARCH INTERESTS

- Machine Learning, Deep Learning, Neural Networks, and Data Science
- Internet of Things Security and Blockchain for IoT Applications
- Vehicular Communication and Device-to-Device Communication
- Computer Networks, Wireless Networks, and Network Security

TEACHING EXPERIENCE

05/05/2016 – Present

Assistant Professor
Department of Computer Science, Bacha Khan University Charsadda

- Design undergraduate and postgraduate curricula and deliver lectures at both levels.
- Supervise undergraduate and postgraduate research students.
- Prepare and assess quizzes, assignments, and examination papers.
- Prepare national and international research grant proposals.

10/05/2012 – 04/05/2016

Lecturer
Department of Computer Science, Bacha Khan University Charsadda

- Delivered undergraduate lectures, tutorials, and laboratory sessions.
- Supervised undergraduate Final Year Projects.
- Assessed quizzes, assignments, and examinations; participated in seminars on teaching quality.

ADMINISTRATIVE EXPERIENCE

03/01/2024 – 15/10/2025

Registrar (Additional Charge)
Bacha Khan University Charsadda

- Led university administrative management and developed strategic plans and institutional policies.
- Managed academic records, human resources, curricula, and academic policies.
- Handled compliance reporting to the Higher Education Department/Commission.
- Conducted correspondence with universities, institutions, and other stakeholders.

Head of Department / Assistant Professor

15/09/2026 – Present
29/07/2022 – 29/04/2026

Department of Computer Science, Bacha Khan University Charsadda

- Provide academic leadership and oversee departmental management and development.
- Manage and motivate departmental staff and maintain student and staff discipline.
- Oversee curriculum development and revision in response to relevant changes.

PROFESSIONAL EXPERIENCE

31/01/2012 – 10/05/2012

Network Administrator

University of Malakand

- Maintained and troubleshot LAN and wireless networks, Cisco devices, and wireless access points.
- Administered Windows Server 2003, Active Directory, DNS, DHCP, and FTP servers.
- Managed user, computer, and group accounts; resolved networking and network-security issues.

RESEARCH SUPERVISION

Master by Research: 8 successfully supervised; 8 currently under supervision.

Undergraduate research supervision and Final Year Project supervision are included in the academic appointments above.

RESEARCH PUBLICATIONS

Journal Articles

1. Muhammad Atif, **Izaz Ahmad Khan**, Mohammad Abrar, Shujaat Ali, Dilawar Shah, Muhammad Tahir. (2026). A Lightweight Federated MLP Framework for Privacy-Preserving Brain MRI Classification. *Applied Computational Intelligence and Soft Computing*, Published: 09 August 2026. https://doi.org/10.1155/acis/2118911

2. Muhammad Arsalan, Mohammad Asim Ayaz, **Izaz Ahmad Khan**, Faizan Ullah, Mohsin Kamal, Faheem Khan, Kaznah Alshammari. (2026). A Novel GPS Location Spoofing Attack Detection Mechanism for Autonomous Vehicles. *Wireless Personal Communications*, Published online: 30 May 2026. https://doi.org/10.1007/s11277-026-12095-0

3. Shah Nazir, Salman Jan, Iván García-Magariño, Odinaev Raim Nazarovich, Ibrar Ahmad, **Izaz Ahmad Khan**. (2026). Using AHP and TOPSIS for Goal-Oriented Data Mining With Effective Usage. *Concurrency and Computation: Practice and Experience*, 29 May 2026, Volume 38, Issue 11, Article e70733. https://doi.org/10.1002/cpe.70733

4. Muhammad Imran Khan Khalil, Ahmad Ali, Syed Adeel Ali Shah, Alauddin, Amer Taj, **Izaz Ahmad Khan**. (2026). Lyapunov-Based Energy Optimization for Deadline-Constrained Tasks across Geo-Distributed Data Centers. *Annual Methodological Archive Research Review*, 20/05/2026, Volume 4, Issue 2. https://amresearchjournal.com/index.php/Journal/about

5. Muhammad Imran Khan Khalil, Fawad Ali, Syed Adeel Ali Shah, **Izaz Ahmad Khan**, Amer Taj. (2026). On Enabling Energy-efficiency in Geographically Distributed Data Centers through Data Deduplication. *Annual Methodological Archive Research Review*, 09/02/2026, Vol. 3 No. 11 (2025). https://amresearchjournal.com/index.php/Journal/article/view/1560

6. Atta Ur Rahman, Naeem Jan, Dr. Mohammad Abrar, **Dr. Izaz Ahmad Khan**, Muhammad Shahid. (2026). Detection of respiratory viral infection Through X-Ray Using Convolutional Neural Network. *Annual Methodological Archive Research Review*, 30/01/2026, Volume 4, Issue 1. https://amresearchjournal.com/index.php/Journal/about

7. Zeeshan Zeeshan, **Izaz Ahmad Khan**, Afraz Hussain Majeed, Amina Magdich, Yamen El Touati, Nidhal Ben Khedher. (2025). Soft prediction for dual solutions of single and multi-wall CNTs in magneto-cross mixed convection flow with suction/injection effects. *International Journal of Numerical Methods for Heat & Fluid Flow*, 17/12/2025, Volume 12, Page(s) 1 - 25. https://doi.org/10.1108/HFF-07-2025-0467

8. Naeem Jan, Atta Ur Rahman, Faizan Ullah, **Dr. Izaz Ahmad Khan**, Muhammad Shahid. (2025). Skin Cancer Detection Through Images Using Deep Convolutional Neural Networks. *Annual Methodological Archive Research Review*, 30/08/2025, Volume 3, Issue 8. https://amresearchjournal.com/index.php/Journal/about

9. Muhammad Shamrooz Aslam, Hazrat Bilal, Wen–Jer Chang, Neeraj Kumar, **Izaz Ahmad Khan**, Athanasios V Vasilakos. (2025). H∞ Delayed Filtering of Markov Jump Fuzzy Systems in Consumer Electronics: Input–Output Analysis. *IEEE Transactions on Consumer Electronics*, 29 April 2025, Page(s) 1-1. https://doi.org/10.1109/TCE.2025.3565105

10. Abdu Salam, Mohammad Abrar, Farhan Amin, Faizan Ullah, **Izaz Ahmad Khan**, Bader Fahad Alkhamees, Hussain Al salman. (2024). Securing Smart Manufacturing by Integrating Anomaly Detection With Zero-Knowledge Proofs. *IEEE Access 2024*, Volume 12, Page(s) 36346 - 36360. https://doi.org/10.1109/ACCESS.2024.3373697

11. M Imran Khan Khalil, **Izaz Ahmad Khan**, Asif Nawaz, Shahid Latif, Sheeraz Ahmed, Safyan Ahmed. (2024). Unveiling the Security Maze: A Comprehensive Review of Challenges in Internet of Things. *Journal of Computing & Biomedical Informatics*, ISSN: 2710 -1606, April 01, 2024. https://jcbi.org/index.php/Main/article/view/415

12. Zia Ur Rahman, Muhammad Imran Khan Khalil, Asif Nawaz, **Izaz Ahmad Khan**, Naveed Jan, and Sheeraz Ahmad. (2024). Analysis and Clustering of Pakistani Music by Lyrics: A Study of CokeStudio Pakistan. *Journal of Computing & Biomedical Informatics*, Volume 07, Issue 01, 2024. https://jcbi.org/index.php/Main/article/view/503

13. Faizan Ullah, Abdu Salam, Farhan Amin, **Izaz Ahmad Khan**, Jamal Ahmed, Shamzash Alam Zaib, Gyu Sang Choi. (2024). Deep Trust: A Novel Framework for Dynamic Trust and Reputation Management in the Internet of Things (IoT) Based Networks. *IEEE Access 2024*, Volume 12, Early Access. https://doi.org/10.1109/ACCESS.2024.3409273

14. Mohammad Abrar, Didar Hussain, **Izaz A Khan**, Fasee Ullah, Mohd Anul Haq, Mohammed A Aleisa, Abdullah Alenizi, Shashi Bhushan, Sheshikala Martha. DeepSplice: A Deep Learning Approach for Accurate Prediction of Alternative Splicing Events in the Human Genome. *Frontiers in Genetics*, Volume 15, Pages 1349546. https://doi.org/10.3389/fgene.2024.1349546

15. **Izaz Ahmad Khan**, Abdu Salam, Faizan Ullah, Farhan Amin, Shams Tabrez, Shah Faisal, Gyu Sang Choi. (2024). Big Data Analytics Model Using Artificial Intelligence (AI) and 6G Technologies for Healthcare. *IEEE Access 2024*, Volume 12, Page(s) 97924 - 97937. https://doi.org/10.1109/ACCESS.2024.3427333

16. Abdu Salam, Faizan Ullah, Farhan Amin, **Izaz Ahmad Khan**, Eduardo Garcia Villena, Angel Kuc Castilla, Isabel de la Torre. (2024). Efficient prediction of anticancer peptides through deep learning. *PeerJ Computer Science*, July 19, 2024. https://doi.org/10.7717/peerj-cs.2171

17. Mohsin Ali, Dilawar Shah, Shahid Qazi, **Izaz Ahmad Khan**, Mohammad Abrar, Sana Zahir. (2024). An Effective Deep Learning-based Approach for Splice Site Identification in Gene Expression. *Science Progress*, Volume 107, Issue 3, July 2024, Page(s) 1-16. https://doi.org/10.1177/00368504241266588

18. Imtiaz Khan, Muhammad Imran Khan Khalil, Asif Nawaz, **Izaz Ahmad Khan**, Lubna Zafar, Sheeraz Ahmad. (2024). Urdu Language Text Summarization using Machine Learning. *Journal of Computing & Biomedical Informatics*, ISSN: 2710 -1606, Volume 08, Issue 01, 2024. https://jcbi.org/index.php/Main/article/view/643

19. Urooba Khalid, M. Imran Khan Khalil, Asif Nawaz, **Izaz Ahmad Khan**, Mian M. Aimal, and Sheeraz Ahmad. (2024). Experimental Analysis of Algorithms for Community Detection. *Journal of Computing & Biomedical Informatics*, Volume 08, Issue 01, 2024. https://www.jcbi.org/index.php/Main/article/view/880

20. Mudasir Khan, Pir Masoom Shah, **Izaz Ahmad Khan**, Saif ul Islam, Zahoor Ahmad, Faheem Khan 4, Youngmoon Lee. (2023). IoMT-Enabled Computer-Aided Diagnosis of Pulmonary Embolism from Computed Tomography Scans Using Deep Learning. *Sensors 2023*, 1, 0. https://doi.org/10.3390/s23031471

21. Muhammad Imran Khan Khalil, Syed Adeel Ali Shah, **Izaz Ahmad Khan**, Mohammad Hijji, Muhammad Shiraz and Qaisar Shaheen. (2023). Energy Cost Minimization Using String Matching Algorithm in Geo-Distributed Data Centers. *Computers*, Materials & Continua 2023, 75(3), 6305-6322. https://doi.org/10.32604/cmc.2023.038163

22. Mansoor Iqbal, Zahid Ullah, **Izaz Ahmad Khan**, Sheraz Aslam, Haris Shaheer ,Mujtaba Humayon, Muhammad Asjad Salahuddin and Adeel Mehmood. (2023). Optimizing Task Execution: The Impact of Dynamic Time Quantum and Priorities on Round Robin Scheduling. *Future Internet 2023*, 15, 104. https://doi.org/10.3390/fi15030104

23. James Adu Ansere, Mohsin Kamal, **Izaz Ahmad Khan**, Muhammad Naveed Aman. (2023). Dynamic Resource Optimization for Energy-Efficient 6G-IoT Ecosystems. *Sensors 2023*, 23(10), 4711. https://doi.org/10.3390/s23104711

24. Sayyed Shahid Hussain, Xu Degang, Pir Masoom Shah, Saif Ul Islam, Mahmood Alam, **Izaz Ahmad Khan**, Fuad A Awwad, Emad AA Ismail. (2023). Classification of Parkinson's Disease in Patch-Based MRI of Substantia Nigra. *Diagnostics 2023*, 13(17), 2827. https://doi.org/10.3390/diagnostics13172827

25. Yadi Liu, Abdullah A. Al-Atawi, **Izaz Ahmad Khan**, Neelam Gohar, Qamar Zaman. (2023). Using the Fuzzy Analytical Hierarchy Process to Prioritize the Impact of Visual Communication based on Artificial Intelligence for Long-term Learning. *Soft Computing (2023) 27:157–168*. https://doi.org/10.1007/s00500-022-07556-0

26. Abdu Salam, Mohammad Abrar, Faizan Ullah, **Izaz Ahmad Khan**, Farhan Amin, Gyu Sang Choi. (2023). Efficient Data Collaboration Using Multi-Party Privacy Preserving Machine Learning Framework. *IEEE Access 2023*, Volume 11, Page(s) 138151 - 138164. https://doi.org/10.1109/ACCESS.2023.3339750

27. **Izaz Ahmad Khan**, Faizan Ullah, Mohammad Abrar, Sabir Shah, Fawad Taj, Muhammad Imran Khan Khalil, Abdus Salam. (2022). Ransomware Early Detection Model using API-Calls at Runtime by Random Decision Forests. *International Review of Basic and Applied Sciences (IRBAS)*, ISSN: 2308-7056, Vol 10, Pages 349-359, April, 2022.
28. Muhammad Imran Khan Khalil, Ahad Ullah, Amer Taj, **Izaz Ahmad Khan**, Faizan Ullah, Fawad Taj, Sabir Shah. (2022). Analysis of Critical Risk Factors Affecting Software Quality A Study of KPK, Pakistan Software Industry. *International Review of Basic and Applied Sciences (IRBAS)*, ISSN: 2308-7056, Vol 10, Pages 338-348, April, 2022.
29. **Izaz Ahmad Khan**, Syed Adeel Ali Shah, Adnan Akhunzada, Abdullah Gani, Joel JPC Rodrigues. (2021). TARS: A Novel Mechanism for Truly Autonomous Resource Selection in LTE-V2V Mode 4. *Sensors 2021*, 21, 7431. https://doi.org/10.3390/s21227431
30. Zia Ur Rahman, **Izaz Ahmad Khan**, Safyan Mukhtar, Shah Suhail, Maryam Bibi. (2017). Investigating the Pakistan's Offshore Software Industry Infrastructure. *Journal of Applied Environmental and Biological Sciences*, ISSN: 2090-4274, 7(3)237-243, 2017.
31. Zia Ur Rahman, **Izaz Ahmad Khan**, Safyan Mukhtar, Shah Suhail, Muhammad Safdar, Izaz ur Rahman. (2017). Magnetic Resonance Images Classification through Relevance Vector Machine. *Journal of Applied Environmental and Biological Sciences*, ISSN: 2090-4274, 7(1)207-213, 2017.
32. Zia Ur Rahman, **Izaz Ahmad Khan**, Safyan Mukhtar, Raees Khan, Sajjad Khan, Reena Rashid, Waqas Ahmad. (2017). Magnetic Resonance Images (MRI) Classificatıon through Support Vector Machine. *Journal of Applied Environmental and Biological Sciences*, ISSN: 2090-4274, 7(4)230-236, 2017.

Conference Proceedings

1. Muhammad Muneeb Ullah, **Izaz Ahmad Khan**, Syed Adeel Ali Shah. (2019). Delay-Efficient Forwarding in SDN Assisted Mesh Networks: An Application of Shapley Value. *2019 13th International Conference on Mathematics, Actuarial Science.*

PROFESSIONAL REGISTRATION AND CREDENTIALS

- Registered Engineer, Pakistan Engineering Council.
- Cisco Certified Network Associate (CCNA), 2012.
- Master of Networking degree assessed by the Australian Computer Society.

TECHNICAL COMPETENCIES

Operating systems	Windows; Mac OS
Programming and simulation	PYTHON; MATLAB; CISCO Packet Tracer
Hardware	Arduino
Writing and documentation	Overleaf; LaTeX; MS Office
Design and visualization	Edraw Max; Microsoft Visio; Origin Pro

LANGUAGE QUALIFICATION

IELTS GENERAL (Expired): Writing 6.5 | Reading 8 | Listening 7.5 | Speaking 6.0 | Overall 7.0

REFEREES

Prof. Dr. Shah Khusro
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