

Atif Khan

Chairman/Associate Professor
Department of Computer Science
Islamia College Peshawar (Public Sector University)
Email: atifkhan@icp.edu.pk
Cell No: +923339257326



Personal Particulars Higher Commission Education (HEC) Scholar
HEC Approved Ph.D. Supervisor

Manuscripts:

Published: 47

Total citations: 1685

Cumulative Impact Factor: 193

h-index: 22

i10-index: 39

Supervision:

MS Supervised: 19

Ph.D Supervised: 01

MS In Progress: 04

Ph.D. In Progress: 04

Research Interests Artificial Intelligence and its Applications, Machine Learning and its applications, Deep Learning, Natural Language Processing, Computer Vision, Text Mining (Sentiment Analysis), Information Retrieval

Patents **Title:** Semantic Approach for Multi-Document Abstractive Summarization

Application No: PI 2016700384

Grant No.: MY-189863-A

Applicant's/Agent's Ref.: PT /5400/UTM/15

Filing Date: 02 February 2016

Name of Inventor: Atif Khan and Naomie Binti Salim

Patent Owner: Universiti Teknologi Malaysia, 81310, UTM, Skudai, Johor Darul Takzim, Malaysia

Date of Grant: 14 March 2022

Publication Date: 14 March 2022

Duration Of Patent: 2 February 2016 Until 02 February 2036

<https://iponlineext.myipo.gov.my/SPHI/Extra/IP/Mutual/Browse.aspx?sid=638301121121137260>

Journal Papers

- [1] Muhammad Umair, **Atif Khan**, Fasee Ullah, Atef Masmoudi, and Muhammad Faheem. "Global and Local Context Fusion in Heterogeneous Graph Neural Network for Summarizing Lengthy Scientific Documents.", In IEEE Access (2025) **(WOS indexed, Impact Factor: 3.5)**
- [2] Ayesha Khaliq, **Atif Khan**, Salman Afsar Awan, Salman Jan, Muhammad Umair, and Megat Fareez Azril Zuhairi. "Integrating Topic-Aware Heterogeneous Graph Neural Network with Transformer Model for Medical Scientific Document Abstractive Summarization.", In: IEEE Access (2024) **(WOS indexed, Impact Factor: 3.47)**
- [3] **Atif Khan**, Abrar Ahmed, Muhammad Bilal, Salman Jan. "Abusive Language Detection in Urdu Text: Leveraging Deep Learning and Attention Mechanism", In: IEEE Access (2024) **(WOS indexed, Impact Factor: 3.47)**
- [4] Haseeb, Khalid, Fahad F. Alruwaili, **Atif Khan**, Teg Alam, Abrar Wafa, and Amjad R. Khan. "AI Assisted Energy Optimized Sustainable Model for Secured Routing in Mobile Wireless Sensor Network.", In: Mobile Networks and Applications (2024): 1-9. **(WOS indexed, Impact Factor: 3.8)**
- [5] Khalid Haseeb, Amjad Rehman, Anees Ara, **Atif Khan**, Tanzila Saba. "Sensors-enabled autonomous vehicle model with QoS-driven communication services", In: IEEE Sensors (2024). **(WOS indexed, Impact Factor: 3.8) [Accepted]**
- [6] Muhammad Bilal, **Atif Khan**, Salman Jan, Shahrulniza Musa, Shaukat Ali. "Roman Urdu Hate Speech Detection Using Transformer Based Model for Cyber Security Applications". In: Sensors (2023): 1-28. **(WOS indexed, Impact Factor: 4.35)**
- [7] Bilal, Muhammad, **Atif Khan**, Salman Jan, and Shahrulniza Musa. "Context-Aware Deep Learning Model for Detection of Roman Urdu Hate Speech on Social Media Platform". In: IEEE Access (2022): 121133-121151. **(WOS indexed, Impact Factor: 3.47)**
- [8] Muhammad Umair, Iftikhar Alam, **Atif Khan**, Inayat Khan, Niamat Ullah, and Mohammad Yusuf Momand. "N-GPETS: Neural Attention Graph-Based Pretrained Statistical Model for Extractive Text Summarization". In: Computational Intelligence and Neuroscience (2022) : 1-14. **(WOS indexed, Impact Factor: 3.120)**
- [9] Muhammad Fayaz, **Atif Khan**, Muhammad Bilal, and Sana Ullah Khan. "Machine learning for fake news classification with optimal feature selection". In: Soft Computing (2022): 1-9. **(WOS indexed, Impact Factor: 1.34)**
- [10] Ahmed, Nisar, H. M. Shahzad Asif, Abdul Rauf Bhatti, and **Atif Khan**. "Deep ensembling for perceptual image quality assessment". In: Soft Computing (2022): 1-22. **(WOS indexed, Impact Factor: 1.34)**
- [11] Faizan Ullah, Abdu Salam, Muhammad Abrar, Masood Ahmad, Fasee Ullah, **Atif Khan**, Abdullah Alharbi, and Wael Alosaimi. "Machine health surveillance system by using deep learning sparse autoencoder". In: Soft Computing (2022): 1-14. **(WOS indexed, Impact Factor: 1.34)**

- [12] Shahzad Hameed, Qurratul-Ain Minhas, Sheeraz Ahmad, Fasee Ullah, Arshad Khan, **Atif Khan**, M. Irfan Uddin, and Qiaozhi Hua. "Connectivity of Drones in FANETs Using Biologically Inspired Dragonfly Algorithm (DA) through Machine Learning". In: *Wireless Communications and Mobile Computing* (2022): 1-11. **(WOS indexed, Impact Factor: 2.146)**
- [13] Muhammad Babar, Mohammad Dahman Alshehri, Muhammad Usman Tariq, Fasee Ullah, **Atif Khan**, M. Irfan Uddin, and Ahmed S. Almasoud. "IoT-Enabled Big Data Analytics Architecture for Multimedia Data Communications". In: *Wireless Communications and Mobile Computing* (2021): 1-9. **(WOS indexed, Impact Factor: 2.146)**
- [14] Sabir Awan, Sheeraz Ahmed, Fasee Ullah, Asif Nawaz, **Atif Khan**, M. Irfan Uddin, Abdullah Alharbi, Wael Alosaimi, and Hashem Alyami. "IoT with blockchain: A futuristic approach in agriculture and food supply chain". In: *Wireless Communications and Mobile Computing* (2021): 1-14. **(WOS indexed, Impact Factor: 2.146)**
- [15] Maneela Shaheen, Rafiullah Khan, Rajesh Roshan Biswal, Mohib Ullah, **Atif Khan**, M. Irfan Uddin, Mahdi Zareei, and Abdul Waheed. "Acute myeloid leukemia (AML) detection using AlexNet model". In: *Complexity* (2021): 1-8. **(WOS indexed, Impact Factor: 3.275)**
- [16] Mohib Ullah, Rafiullah Khan, Muhammad Inam Ul Haq, **Atif Khan**, Wael Alosaimi, Muhammad Irfan Uddin, and Abdullah Alharbi. "Multi-group ObScure logging (MG-OSLo) A privacy-preserving protocol for private web search". In: *IEEE Access* (2021): 79005-79020. **(WOS indexed, Impact Factor: 3.476)**
- [17] **Atif Khan**, Muhammad Adnan Gul, Abdullah Alharbi, M. Irfan Uddin, Shaukat Ali, and Bader Alouffi. "Impact of lexical features on answer detection model in discussion forums". In: *Complexity* (2021): 1-8. **(WOS indexed, Impact Factor: 3.275)**
- [18] Javed Iqbal Bangash, Abdul Waheed Khan, Asfandyar Khan, **Atif Khan**, M. Irfan Uddin, and Qiaozhi Hua. "Multiconstraint-aware routing mechanism for wireless body sensor networks". In: *Journal of Healthcare Engineering* (2021): 1-15. **(WOS indexed, Impact Factor: 3.822)**
- [19] Amjad Khan, Asfandyar Khan, Javed Iqbal Bangash, Fazli Subhan, Abdullah Khan, **Atif Khan**, M. Irfan Uddin, and Marwan Mahmoud. "Cuckoo Search-based SVM (CS-SVM) Model for Real-Time Indoor Position Estimation in IoT Networks". In: *Security and Communication Networks* (2021): 1-7. **(WOS indexed, Impact Factor: 1.968)**
- [20] Bilal Khan, Rashid Naseem, Muhammad Arif Shah, Karzan Wakil, **Atif Khan**, M. Irfan Uddin, and Marwan Mahmoud. "Software defect prediction for healthcare big data: an empirical evaluation of machine learning techniques". In: *Journal of Healthcare Engineering* (2021): 1-16. **(WOS indexed, Impact Factor: 3.822)**
- [21] Samina Amin, Muhammad Irfan Uddin, Duaa H. AlSaeed, **Atif Khan**, and Muhammad Adnan. "Early detection of seasonal outbreaks from twitter data using machine learning approaches". In: *Complexity* (2021): 1-12. **(WOS indexed, Impact Factor: 3.275)**

- [22] Ishtiaq Wahid, Fasee Ullah, Masood Ahmad, **Atif Khan**, M. Uddin, Abdullah Alharbi, and Wael Alosaimi. "Quality of service aware cluster routing in vehicular Ad Hoc Networks". In: Computers, Materials & Continua (2021): 3949-3965. **(WOS indexed, Impact Factor: 3.860)**
- [23] Ahmad Mustafa, Wan MN Wan-Kadir, Noraini Ibrahim, Muhammad Arif Shah, Muhammad Younas, **Atif Khan**, Mahdi Zareei, and Faisal Alanazi. "Automated Test Case Generation from Requirements: A Systematic Literature Review". In: Computers, Materials & Continua (2021): 1819-1833. **(WOS indexed, Impact Factor: 3.860)**
- [24] Masood Ahmad, Abdul Hameed, Fasee Ullah, Ishtiaq Wahid, **Atif Khan**, M. Irfan Uddin, Shafiq Ahmad, and M. Ahmed. "Adaptation of vehicular ad hoc network clustering protocol for smart transportation". In: Computers, Materials & Continua (2021): 1353-1368. **(WOS indexed, Impact Factor: 3.860)**
- [25] Muhammad Sohaib Aslam, Muhammad Younas, Muhammad Umar Sarwar, Muhammad Arif Shah, **Atif Khan**, M. Irfan Uddin, Shafiq Ahmad, Muhammad Firdausi, and Mazen Zaindin. "Liver-Tumor Detection Using CNN ResUNet". In: Computers, Materials & Continua (2021): 1899-1914. **(WOS indexed, Impact Factor: 3.860)**
- [26] Rafiullah Khan, Mohib Ullah, **Atif Khan**, Muhammad Irfan Uddin, and Maha Al-Yahya. "NN-QuPiD attack: neural network-based privacy quantification model for private information retrieval protocols". In: Complexity (2021). 1-8. **(WOS indexed, Impact Factor: 3.275)**
- [27] Noor Mast, Muhammad Altaf Khan, M. Irfan Uddin, Syed Atif Ali Shah, **Atif Khan**, Mahmoud Ahmad Al-Khasawneh, and Marwan Mahmoud. "Channel contention-based routing protocol for wireless ad hoc networks". In: Complexity (2021). 1-10. **(WOS indexed, Impact Factor: 3.275)**
- [28] Masood Ahmad, Fasee Ullah, Ishtiaq Wahid, **Atif Khan**, M. Irfan Uddin, Abdullah Alharbi, and Wael Alosaimi. "A Bio-Inspired Routing Optimization in UAV-enabled Internet of Everything". In: Computers, Materials & Continua (2021): 321-336. **(WOS indexed, Impact Factor: 3.860)**
- [29] Muhammad Saeed Yahya, Muhammad Awais, Muhammad Younas, Muhammad Arif Shah, **Atif Khan**, M. Irfan Uddin, and Marwan Mahmoud. "An Abstractive Summarization Technique with Variable Length Keywords as per Document Diversity". In: Computers, Materials & Continua (2021): 2409-2423. **(WOS indexed, Impact Factor: 3.860)**
- [30] Muhammad Fayaz, **Atif Khan**, Javid Ur Rahman, Abdullah Alharbi, M. Irfan Uddin, and Bader Alouffi. "Ensemble machine learning model for classification of spam product reviews". In: Complexity (2020): 1-10. **(WOS indexed, Impact Factor: 3.275)**
- [31] Rashid Naseem, Bilal Khan, Muhammad Arif Shah, Karzan Wakil, **Atif Khan**, Wael Alosaimi, M. Irfan Uddin, and Badar Alouffi. "Performance assessment of classification algorithms on early detection of liver syndrome". In: Journal of Healthcare Engineering (2020): 1-13. **(WOS indexed, Impact Factor: 3.822)**
- [32] Yasir Ahmad, Mohib Ullah, Rafiullah Khan, Bushra Shafi, **Atif Khan**, Mahdi Zareei, Abdallah Aldosary, and Ehab Mahmoud Mohamed. "SiFSO: Fish swarm optimization-based technique for efficient community detection in complex networks". In: Complexity (2020): 1-9. **(WOS indexed, Impact Factor: 3.275)**

- [33] Fasee Ullah, Izhar Ullah, **Atif Khan**, M. Irfan Uddin, Hashem Alyami, and Wael Alosaimi. "Enabling clustering for privacy-aware data dissemination based on medical healthcare-iots (mh-iots) for wireless body area network". In: Journal of Healthcare Engineering (2020): 1-10. **(WOS indexed, Impact Factor: 3.822)**
- [34] Masood Ahmad, Abdul Hameed, Fasee Ullah, **Atif Khan**, Hashem Alyami, M. Irfan Uddin, Abdullah ALharbi, and Furqan Aziz. "Cluster optimization in mobile ad hoc networks based on memetic algorithm: MemeHoc". In: Complexity (2020): 1-12. **(WOS indexed, Impact Factor: 3.275)**
- [35] Misba Sikandar, Rafia Sohail, Yousaf Saeed, Asim Zeb, Mahdi Zareei, Muhammad Adnan Khan, **Atif Khan**, Abdallah Aldosary, and Ehab Mahmoud Mohamed. "Analysis for disease gene association using machine learning". In: IEEE Access (2020): 160616-160626. **(WOS indexed, Impact Factor: 3.476)**
- [36] **Atif Khan**, Qaiser Shah, M. Irfan Uddin, Fasee Ullah, Abdullah Alharbi, Hashem Alyami, and Muhammad Adnan Gul. "Sentence embedding based semantic clustering approach for discussion thread summarization". In: Complexity (2020). 1-11. **(WOS indexed, Impact Factor: 3.275)**
- [37] **Atif Khan**, Muhammad Adnan Gul, M. Irfan Uddin, Syed Atif Ali Shah, Shafiq Ahmad, Al Firdausi, Muhammad Dzulqarnain, and Mazen Zaindin. "Summarizing online movie reviews: a machine learning approach to big data analytics". In: Scientific Programming (2020): 1-11. **(WOS indexed, Impact Factor: 1.672)**
- [38] Samina Amin, M. Irfan Uddin, Saima Hassan, **Atif Khan**, Nidal Nasser, Abdullah Alharbi, and Hashem Alyami. "Recurrent neural networks with TF-IDF embedding technique for detection and classification in tweets of dengue disease". In: IEEE Access (2020): 131522-131533. **(WOS indexed, Impact Factor: 3.476)**
- [39] Hamid Asmat, Fasee Ullah, Mahdi Zareei, **Atif Khan**, and Ehab Mahmoud Mohamed. "Energy-efficient centrally controlled caching contents for information-centric internet of things". IEEE Access (2020): 126358-126369. **(WOS indexed, Impact Factor: 3.476)**
- [40] **Atif Khan**, Muhammad Adnan Gul, Mahdi Zareei, R. R. Biswal, Asim Zeb, Muhammad Naeem, Yousaf Saeed, and Naomie Salim. "Movie review summarization using supervised learning and graph-based ranking algorithm". In: Computational intelligence and neuroscience (2020):1-14. **(WOS indexed, Impact Factor: 3.120)**
- [41] **Atif Khan**, Ibrahim Ibrahim, M. Irfan Uddin, Muhammad Zubair, Shafiq Ahmad, Al Firdausi, Muhammad Dzulqarnain, and Mazen Zaindin. "Machine learning approach for answer detection in discussion forums: an application of big data analytics". In: Scientific Programming (2020): 1-14. **(WOS indexed, Impact Factor: 1.672)**
- [42] Adil Khan, Muhammad Naeem, Muhammad Zubair Asghar, Aziz Ud Din, and **Atif Khan**. "Playing first-person shooter games with machine learning techniques and methods using the VizDoom Game-AI research platform". In: Entertainment Computing (2020): 1-15. **(WOS indexed, Impact Factor: 2.072)**
- [43] Sana Ullah Khan, Naveed Islam, Zahoor Jan, Ikram Ud Din, **Atif Khan**, and Yasir Faheem. "An e-Health care services framework for the detection and classification of breast cancer in breast cytology images as an IoMT application". In: Future

Generation Computer Systems (2019): 286-296. **(WOS indexed, Impact Factor: 7.307)**

- [44] Fazli Amin Khalil, Shahzad Anwar, Muhammad Asif, Sana ul Haq, Naveed Ahmad, Majid Ashraf, Muhammad Kamran, **Atif Khan**, and Muhammad Arshad. "Energy management strategy for integrating photovoltaic energy in AC microgrid". In: Journal of Renewable and Sustainable Energy (2018): 1-13. **(WOS indexed, Impact Factor: 2.847)**
- [45] **Atif Khan**, Naomie Salim, Haleem Farman, Murad Khan, Bilal Jan, Awais Ahmad, Imran Ahmed, and Anand Paul. "Abstractive text summarization based on improved semantic graph approach". In: International Journal of Parallel Programming (2018): 992-1016. **(WOS indexed, Impact Factor: 1.447)**
- [46] Waleed Reafee, Naomie Salim, and **Atif Khan**. "The power of implicit social relation in rating prediction of social recommender systems". In: PloS one (2016): 1-20. **(WOS indexed, Impact Factor: 3.23)**
- [47] **Atif Khan**, Naomie Salim, and Yogan Jaya Kumar. "A framework for multi-document abstractive summarization based on semantic role labelling". In: Applied Soft Computing (2015): 737-747. **(WOS indexed, Impact Factor: 2.81)**

**Conference
Papers/
Book
Chapters**

- [1] Sami Ur Rahman and Atif Khan. "Effective Detection of Cybersecurity Attacks in IoT Networks using Random Forest Classifier Integrated with mRMR Feature Selection". In Proceedings of 1st International Conference on Computing Technologies, Tools and Applications (ICTAPP),2023. 9-11 May. Peshawar, Pakistan. 65-68. <https://ictapp.org.pk/ICTAPP-23-38-FinalVersion.html>
- [2] Shah Faisal, **Atif Khan**, Sohail Yousaf and Muhammad Umair. "Contextual Word Embedding based Clustering for Extractive Summarization." In International Conference on Frontiers of Information Technology (FIT), 2022. 12-13 December. Islamabad, Pakistan: IEEE, 165-170. **(IEEE indexed)**
- [3] Javid Ur Rahman, Shaukat Ali, **Atif Khan**, and Muhammad Fayaz. "A Deep Ensemble Model for News Classification on Social Media." In International Conference on Cyber Warfare and Security (ICCWS), 2021. 23-25 November. Islamabad, Pakistan: IEEE, 57-62. **(IEEE indexed)**
- [4] Fasee Ullah, Ihtesham Ul Islam, Abdul Hanan Abdullah, and **Atif Khan**. "Future of big data and deep learning for wireless body area networks." In Deep Learning: Convergence to Big Data Analytics, pp. 53-77. Springer, Singapore, 2019.
- [5] Yogan Jaya Kumar, Fong Jia Kang, Ong Sing Goh, and **Atif Khan**. "Text summarization based on classification using ANFIS". In the Asian Conference on Intelligent Information and Database Systems, pp. 405-417. Springer, Cham, 2017.
- [6] **Atif Khan**, Naomie Salim, and Haleem Farman. "Clustered Genetic Semantic Graph Approach for Multi-document Abstractive Summarization". In International Conference on Intelligent Systems Engineering (ICISE), 2016.15-17 January. Islamabad, Pakistan: IEEE, 63-70 (IEEE indexed)
- [7] **Atif Khan**, Naomie Salim, and Yogan Jaya Kumar. "Genetic Semantic Graph Approach for Multi-document Abstractive Summarization". In the Fifth International

Conference on Digital Information Processing and Communications (ICDIPC), 2015. 7-9 October. Sierre/Siders, Switzerland: IEEE, 173-181. **(IEEE indexed)**

- [8] Obasa Adekunle Isiaka, Naomie Salim, and **Atif Khan**. "Enhanced Lexicon Based Model for Web Forum Answer Detection". In the Fifth International Conference on Digital Information Processing and Communications (ICDIPC), 2015. 7-9 October. Sierre/Siders, Switzerland: IEEE, 237-243. **(IEEE indexed)**

Education

Ph.D. in Computer Science, March 2016

Faculty of Computing, Universiti Teknologi Malaysia (UTM), Johor, Malaysia

Thesis Topic: "*Semantic Approach for Multi-document Abstractive Summarization using Genetic Algorithm and Semantic Graph*"

Advisor: Prof. Dr. Naomie Salim

Research Group: Soft Computing Research Group (SCRG)

M.S. in Computer Science, October 2011

Agricultural University Peshawar, KP, Pakistan

Major: *Computer Science, CGPA: 3.78*

M.Sc., in Computer Science, April 2005

Department of Computer Science, University of Peshawar, KP, Pakistan

Major: *Computer Science, Percentage: 78.25*

B.Sc. in Computer Science, September 2002

Islamia College Peshawar, Peshawar, Pakistan

Major: *Computer Science, Mathematics, Percentage: 80*

F.Sc. Pre-Engineering, September 2000

Islamia College Peshawar, Peshawar, Pakistan, *Percentage: 72*

Matriculation with Science group, August 1998

Islamia Collegiate School, Peshawar, Pakistan, *Percentage: 80*

Teaching Experience

- *June 2022 – To date: **HoD/Associate Professor***, Department of Computer Science, Islamia College Peshawar (Public Sector University), KP, PAKISTAN.
- *December 2016 – June 2022: **Assistant Professor***, Department of Computer Science, Islamia College Peshawar (Public Sector University), KP, PAKISTAN.
- *January 2008 – December 2016: **Lecturer***, Department of Computer Science, Islamia College Peshawar (Public Sector University), KP, PAKISTAN.
- *November 2005 – March 2006: **Lecturer***, Department of Computer Science, Preston University, Peshawar Campus, KP, Pakistan.

- *August 2006 – January 2007: Lecturer*, Department of Computer Science, Peshawar College of Engineering, KP, Pakistan.
- *January 2007 – January 2008: Lecturer*, Department of Computer Science, Agricultural University Public School & College Peshawar, KP, Pakistan.

Honors and Awards

- Awarded Scholarship for Ph.D. in Computer Science by Higher Education Commission, Pakistan.
- Excellence Award in Ph.D. thesis
- Pro-Chancellor Award in Ph.D
- Best Student Award in Ph.D
- Best Presenter Award in PARS 2014, Malaysia
- Overall 2nd Position in M.Sc
- Overall 1st position in B.Sc

Research Projects

Title of Project: Generic and Feature-based opinion Summarizer for Online Product Reviews using Machine Learning Algorithms

Project No: 21-1608/SRGP /R&D/HEC/2017

Project Grant: PKR 366362/-

Sponsor: Higher Education Commission (HEC), Pakistan

Title of Project: Easy Math for kids learning using Augmented Reality

Project Code: NGIRI-2023-22521

Project Grant: PKR 87,907

Sponsor: Ignite- National Technology Fund

Title of Project: UNAD: Facilitating Deep Learning Application for Urdu Fake News Classification Challenges

Project Code: NGIRI-2024-29476

Project Grant: PKR 78,250

Sponsor: Ignite- National Technology Fund

Supervision of MS Scholars

- [1] **Muhammad Adnan, MS Thesis Title:** “*Movie Review Summarization Using Machine Learning Technique Integrated with Graph Ranking Algorithm*”, Islamia College Peshawar. Status: **Graduated** (September 2019)
- [2] **Jamal Nasar, MS Thesis Title:** “*Feature-Based Opinion Summarizer for Product Reviews using Hash-Based Apriori Algorithm*”, Islamia College Peshawar. Status: **Graduated** (November 2019)

- [3] **Nafees Sarwar, MS Thesis Title:** "Optimal Content Selection from Text Documents using Semantic Clustering Technique", Islamia College Peshawar. Status: **Graduated** (January 2020)
- [4] **Ibrahim, MS Thesis Title:** "Supervised Machine learning Based Answer Detection Model for Discussion Forums", Islamia College Peshawar. Status: **Graduated** (May 2021)
- [5] **Qaiser Shah, MS Thesis Title:** "Machine Learning Approach for Discussion Forums Summarization", Islamia College Peshawar. Status: **Graduated** (August 2021)
- [6] **Muhammad Fayaz, MS Thesis Title:** "Ensemble Machine Learning Model for Classification of Spam Product Reviews", Islamia College Peshawar. Status: **Graduated** (September 2021)
- [7] **Rasheed Ahmad, MS Thesis Title:** "Spam Review Detection Model using Machine Learning Algorithms", Islamia College Peshawar. Status: **Graduated** (October 2021)
- [8] **Khairullah, MS Thesis Title:** "Enhancing the Prediction Accuracy of Recommendation System using Machine Learning", Islamia College Peshawar. Status: **Graduated** (December 2021)
- [9] **Javed ur Rahman, MS Thesis Title:** "A Deep Ensemble Model for Fake News Classification on Social Media", Islamia College Peshawar. Status: **Graduated** (April 2022)
- [10] **Muhammad Umair, MS Thesis Title:** "N-GPETS: Neural Attention Graph-based Pre-Trained Statistical Model for Extractive Text Summarization", City University of Science and Information Technology. Status: **Graduated** (June 2022)
- [11] **Abbas Akbar, MS Thesis Title:** "A Machine Learning Approach for Product Recommendation" Status: **Graduated** (July 2022)
- [12] **Tuaseef Jan, MS Thesis Title:** "A Distributional Semantic Approach for Extractive Text Summarization", Islamia College Peshawar. Status: **Graduated** (August 2022)
- [13] **Shah Arif, MS Thesis Title:** "News Articles Summarization using Deep Learning Model", Islamia College Peshawar. Status: **Graduated** (March 2023)
- [14] **Sohail Ahmad, MS Thesis Title:** "Sentence Embedding Based Graph Ranking Technique for Urdu text Summarization". Status: **Graduated** (November 2023)
- [15] **Muhammad Nabeel, MS Thesis Title:** "Offensive Language Detection in Urdu Text Using Recurrent Neural Network". Status: **Graduated** (November 2023)
- [16] **Amir Hamza Farman, MS Thesis Title:** "Pashto Text Sentiment Analysis Using Bert Encoder and BI-LSTM". Status: **Graduated** (March 2024)
- [17] **Abdullah, MS Thesis Title:** "An intelligent Approach of Hate Speech Detection using Deep Learning", Status: **Graduated** (July 2024)
- [18] **Sami Ur Rahman, MS Thesis Title:** "", Status: **Graduated** (January 2025)

- [19] **Amir, MS Thesis Title:** "Sentiment Analysis in Roman Urdu text using Machine Learning Models", Status: **Graduated** (January 2025)
- [20] **Muhammad Salman, MS Thesis Title:** "Hybrid Approach for Wheat Diseases Classification using Fine-Tuned MobileNet and Light GBM", Status: MS Defense Awaited (May, 2025)
- [21] **Muhammad Waheed, MS Thesis Title:** Leveraging Transfer and Ensemble learning for Skin Cancer Classification, **Status:** MS Defense Awaited (May, 2025)

Supervision of Ph.D. Scholars

- [1] **Muhammad Bilal, PhD Thesis Title:"** Context-Aware Deep Learning Model for Detection of Roman Urdu Hate Speech on Social Media Platform", Islamia College Peshawar. Status: **Graduated** (December 2024)
- [2] **Nouman Khan**, Ph.D. Research in Progress
- [3] **Muhammad Zubair**, Ph.D. Research in Progress
- [4] **Ali Shah**, Ph.D. Research in Progress

Additional Responsibilities

- [1] Chairman, Department of Computer Science, Islamia College Peshawar.
- [2] MPhil/PhD Coordinator
- [3] BS AI Coordinator
- [4] Reviewer for many International Journals
- [5] Departmental Quality Enhancement (DQE) member
- [6] Convener of Final Year Projects (FYP) Committee
- [7] Convener of Departmental Accreditation Committee for BS Computer Science and BS Software Engineering Programs
- [8] Convener of the Graduate Studies Committee (GSC)
- [9] Convener of the Board of Studies (BOS)
- [10] Member of the Academic Council
- [11] Member of the Departmental Purchase Committee
- [12] Software Consultant/Researcher at Tech Mentors Company
- [13] Associate Editor in ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP)
- [14] Editorial Board Member at Journal of Big Data, Springer

Conferences Attended

- Keynote Speaker in 3rd International Conference on Computational Intelligent Systems 2024 (ICCIS2024), December 2024, Kohat, Pakistan.
- Served as Session Chair at 2nd International Conference on Computing Technologies, Tools and Applications (ICTAPP-24), June 2024, Peshawar, Pakistan.
- Served as Session Chair at 1st International Conference on Computing Technologies, Tools and Applications (ICTAPP-23), May 2023, Peshawar, Pakistan.

- Attended 1st international Conference “KohaCon’21” as an organizer, 13-18th December, 2021, Islamabad, Pakistan.
- International Conference on Cyber Warfare and Security (ICCWS), 23-25 November, 2021, Islamabad, Pakistan.
- Technical Program Committee member in the 3rd International Virtual Conference on Intelligent and Interactive Computing 2021 (IIC 2021), 9th September, 2021 Melaka, Malaysia.
- International Conference on Soft Computing and Computational Mathematics (ICSCCM), 10-11 December, 2015, Langkawi, Malaysia.
- International Conference on Semantic Web Business and Innovation (SWBI), 7-9 October, 2015, Sierre, Switzerland.
- 9th Postgraduate Annual Research Seminar, 24-26 September, 2013, UTM, Malaysia.
- International Conference on Intelligent Systems Engineering (ICISE), 15-17 January, 2016, Islamabad, Pakistan.

Workshops/ Seminars

- Symposium on Plastic Developed Tools for Easy Resource Sharing Mechanism in Pakistan, 2-3 February, 2022, Islamia College Peshawar, Pakistan.
- Online National KUST Graduate Workshop, 11th June, 2020 Kohat, Pakistan
- One-day workshop on “Importance and Protection of Rights on Intellectual Property of Scientists”, 17th January, 2019, University of Peshawar, Pakistan.
- Attended Emerging Technologies Competition “ICUETC-18” as an organizer, 9-10th January, 2019, Islamia College Peshawar, Pakistan.
- Two-day workshop on “Blockchain”, 11-12th April, 2018, National University of Computer & Emerging Sciences (NUCES), Peshawar Campus, Pakistan.
- One-day workshop on “How to Hunt a Job”, 14th April, 2018, Peshawar, Pakistan.
- One-day Seminar on “Ethical Hacking – License to Hack”, 13th September, 2018, NUCES, Peshawar Campus, Pakistan.
- One-day Seminar on “WordPress and Freelancing”, 12th October, 2018, NUCES, Peshawar Campus, Pakistan.
- One-day seminar on “Now Selected What to do Next”, 12th November, 2018, Islamia College Peshawar, Pakistan
- Event on “Local Hack Day-Hackathon” sponsored by Microsoft, 1st December, 2018, NUCES, Peshawar Campus, Pakistan.
- One-day Seminar on “Social Entrepreneurship”, 18th December, 2018, NUCES, Peshawar Campus, Pakistan.
- One-day training workshop on “Pension Procedures”, 10th August, 2017, Islamia College Peshawar, Pakistan.
- One-day training workshop on “ESTACODE”, 30th October, 2017, Islamia College Peshawar, Pakistan.

- One-day Seminar on “Genetic Analysis of Pakistani Population”, 18th May, 2017, Islamia College Peshawar, Pakistan.
- Training workshop on “Self Assessment Report Writing”, 9-10th March, 2017, Islamia College Peshawar, Pakistan.
- Training on “English for Academic Purposes”, 9-10th November, 2017, Islamia College Peshawar, Pakistan.
- One-day training workshop on “Citation Management by utilizing HEC Digital Library Resources and Online Searching Techniques”, 19th October, 2017, Islamia College Peshawar, Pakistan.
- One-day training workshop on “Poster Designing / Photoshop”, 9th November, 2017, Islamia College Peshawar, Pakistan.
- Three Minutes Thesis (3MT) Competition, 25th February, 2015, UTM, Malaysia.
- Graduate on Time (GOT) Workshop, 7th January, 2015, UTM, Malaysia
- Writing for Journal Workshop, 8th January, 2015, UTM, Malaysia
- Design of Experiment (DOE) and Response Surface Methodology Workshop, 12th August, 2015, UTM, Malaysia.
- LATEX Workshop, 28 May 2015, UTM, Malaysia.
- 11th Postgraduate Annual Research Seminar, 11-12 October, 2015, UTM, Malaysia.
- Introduction to Twitter and R Programming Workshop, 10th December, 2014, UTM, Malaysia.
- 10th Postgraduate Annual Research Seminar, 29 September to 1 October, 2014, UTM, Malaysia.
- Introduction to NeuraBase Toolbox, 24 September, 2014, Neuramatix Training Center, Mid Valley City, Kuala Lumpur, Malaysia.

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- Algorithm for Multi-Document Abstractive Summarization using Semantic Graph. *Reference No. UTM.J.14.01/27.13/1 JLD80(95)*
- Algorithm for Semantic Clustering of Predicate Argument Structures. *Reference No. UTM.J.14.01/27.13/1JLD80(96)*
- Algorithm for Semantic Similarity Computation of Predicate Argument Structures. *Reference No. UTM.J.14.01/27.13/1 JLD80(94)*
- Algorithm of Voting Scheme for Arrangement of Summary Sentences. *Reference No. UTM.J.14.01 /27.13/1JLD80 (93)*
- Modified Graph Based Ranking Algorithm. *Reference No. UTM.J.14 .01/27.13/1 JLD80(91)*
- New or Modified Text Features for Abstractive Text Summarization. *Reference No. UTM.J. 14.01/27.13/ 1JLD80(92)*
- Java Code for Sentence Generation using Simple NLG Embedded with Simple Heuristic Rule. *Reference No. UTM.J.14.01/27.13/1 JLD80(90)*

- Flowchart for Multi-Document Abstractive Summarization using Semantic Graph. *Reference No. UTM.J.14.0 1/27.13/IJLD80 (97)*
- Flowchart for Genetic Semantic Approach for Multi-Document Abstractive Summarization. *Reference No. UTM.J.14.01/27.13/IJLD80 (98)*
- Flowchart for Semantic Approach for Multi-Document Abstractive Summarization. *Reference No. UTM.J.14.01/27.13/IJLD80 (100)*

Personal Information

Citizenship: *Pakistan*
 Current Residence: *Peshawar, Pakistan*
 Marital Status: *Married*
 Date of Birth: 22-01-1982

Professional Courses

- Served as an Oracle Developer and accomplished several database projects.
- Completed Oracle Database Administration course.
- Completed Machine learning, Deep learning, and Data Science courses

Computer Skills

- Mathematical Packages: Matlab.
- Languages: Python, C++, Java, Visual C++, C#.Net.
- Applications: \LaTeX , Microsoft Office.
- Operating System: Windows, Linux.

Courses Taught

- Database Systems (Undergraduate Level)
- Analysis of Algorithms (Undergraduate Level)
- Object Oriented Programming (OOP)-II (Undergraduate Level)
- Automata Theory (Undergraduate Level)
- Operating Systems (Undergraduate Level)
- Requirement Engineering (Undergraduate Level)
- Theory of Computation (Postgraduate level)
- Advanced Analysis of Algorithms (Postgraduate level)
- Information Retrieval (Postgraduate level)
- Python for Everybody (Postgraduate level)
- Text Mining (Postgraduate level)

References

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