

Ayesha Atta

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Passport #: AX1496272 **DoB:** 1980-Oct-07 **Nationality:** Pakistani

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1. SHORT BIO

AYESHA ATTA is currently working as an Assistant Professor in Government College University, Lahore, Pakistan. She completed her Ph.D. from NCBA&E Lahore, Pakistan, in 2020. She also completed her M.Phil. from the Government College University, Lahore, Pakistan.

2. SUMMARY

Motivating and talented teacher driven to inspire students to pursue academic and personal excellence. Strives to create a challenging and engaging learning environment in which students become life-long scholars and learners.

3. HIGHLIGHTS

- HEC, Pakistan Ph.D. Approved Supervisor (**Physical Sciences-Artificial Intelligence**)

4. ACADEMIC/PROFESSIONAL PARTICULARS

(a) Field of Specialization:

- Computational Intelligence
- Machine Learning & Deep Learning
- Signal Processing.
- Cloud Computing
- Fuzzy Logic
- Artificial Intelligence

(b) Academic Qualifications

Ph.D., Computer Science

2020

Specialization: **Computational Intelligence**

NCBA&E University, Lahore, Pakistan.

Thesis: Smart Traffic Congestion Control System Empowered with Machine Learning.

CGPA: 3.70/4.00

MPhil, Computer Science

2013

Government College University, Lahore, Pakistan.

Thesis: Simulation and Performance Analysis of DSR, GRP and TORA
adhoc Routing Protocol.

CGPA: 3.41/4.00

MSc, Computer Science

2005

Punjab University College of Information Technology,
(PUCIT) Lahore Pakistan

CGPA: 3.32/4.00

BCS, Computer Science

2003

Allama Iqbal Open University, Islamabad, Pakistan.

CGPA: 3.11/4.00

Language Proficiency

1. English, Good
2. Urdu, Excellent
3. Punjabi, Excellent

5. EXPERIENCE

Assistant Professor

Sep. 2010 till now

Government College University, Lahore, Pakistan.

Research Students Supervised/Trained

<u>Sr. No.</u>	<u>Level</u>	<u>Number of Trainees</u>
1.	Master Students (MS/M.Phil. Supervision)	25+
2.	Undergraduate Students (BS/MSC Supervision)	100+

6. RESEARCH

Selected Research Areas

- Computational Intelligence
- Machine & Deep Learning
- Smart City (Smart Health, Smart Traffic Control System)

Participation in Conferences

1. The International Conference on Business Analytics for Technology and Security (ICBATS), IEEE, Dubai, UAE, 16-17 Feb 2022.
2. 2nd International Conference on Computer Science & Allied Technologies, LGU, Lahore, Pakistan, 27-28 Nov. 2019.
3. The International Conference on Cyber Resilience (ICCR), IEEE, Dubai, UAE, 6-7 Oct 2022.

Book Chapter

Awotunde, J.B., Muduli, K., & Brahma, B. (Eds.). (2025). Computational Intelligence for Analysis of Trends in Industry 4.0 and 5.0 (1st ed.). Auerbach Publications. <https://doi.org/10.1201/9781003533023>

Publications

1. Tariq, L., **Atta, A.**, Farooq, U., Anwar, N., Asim, M., & Tabassum, N. (2024). Quantum-Inspired Cryptography Protocols for Enhancing Security in Cloud Computing Infrastructures. *STATISTICS, COMPUTING AND INTERDISCIPLINARY RESEARCH*, 6(1), 19-31..
2. Zainab Zafar, **Ayesha Atta**, Leena Anum, Nida Anwar, Nasir Mahmood, & Umer Farooq. (2024). Intellectual Gesticulation Identification Assembly. *Journal of Computing & Biomedical Informatics*, 7(01), 328–339.
3. N. Tahir, **A. Atta** and M. Bukhari, "Therapeutic Image Synthesis using Hybridization of Curvelet and Wavelet Transform," *2023 International Conference on Business Analytics for Technology and Security (ICBATS)*, Dubai, United Arab Emirates, 2023, pp. 1-5, doi: 10.1109/ICBATS57792.2023.10111491.
4. H. M. Alzoubi, N. Sahawneh, A. Q. AlHamad, U. Malik, A. Majid and **A. Atta**, "Analysis Of Cost Prediction In Medical Insurance Using Modern Regression Models," *2022 International Conference on Cyber Resilience (ICCR)*, Dubai, United Arab Emirates, 2022, pp. 1-10, doi: 10.1109/ICCR56254.2022.9995926.
5. **A. Atta**, M. A. Khan, M. Asif, G. F. Issa, R. A. Said and T. Faiz, "Classification of Skin Cancer empowered with convolutional neural network," *2022 International Conference on Cyber Resilience (ICCR)*, Dubai, United Arab Emirates, 2022, pp. 01-06, doi: 10.1109/ICCR56254.2022.9995928.
6. Taher M. Ghazal; Mohammad Kamrul Hasan; Amelia Natasya Abdul Wahab; Amer Ibrahim; **Ayesha Atta**; "Towards Privacy Provisioning for Internet of Things (IoT)," *2022 International Conference on Cyber Resilience (ICCR)*, Dubai, United Arab Emirates, 2022, pp. 01-07, doi: 10.1109/ICCR56254.2022.9995916.
7. T. Mohamed *et al.*, **A. Atta**, "Intelligent Hand Gesture Recognition System Empowered With CNN," *2022 International Conference on Cyber Resilience (ICCR)*, Dubai, United Arab Emirates, 2022, pp. 1-8, doi: 10.1109/ICCR56254.2022.9995760.
8. **Ayesha Atta**, Sagheer Abbas, M. Adnan Khan, Gulzar Ahmed, Umer Farooq, "An Adaptive Approach: Smart Traffic Congestion Control System", *Journal of King Saud University-*

Computer and Information Sciences Monthly ISSN: 1319-1578, Elsevier Science BV, PO Box 211, Amsterdam, Netherlands, 1000 AE, vol. 23, pp. 1012-1019, 2020, DOI: <https://doi.org/10.1016/j.jksuci.2018.10.011>, PII. S1319-1578(18)30856-5, Reference: JKSUCI 531, 2020. [IF=13.473, ISI Indexed, Q1].

9. Muhammad Adnan Khan, Sagheer Abbas, **Ayesha Atta**, Allah Ditta, Hani A., Muhammad Farhan Khan, Atta-ur-Rahman, and Rizwan Ali Naqvi, "Intelligent Cloud-Based Heart Disease Prediction System Empowered with Supervised Machine Learning", Computers, Materials & Continua (CMC), ISSN: 1546-2218 (print), ISSN: 1546-2226 (online), vol: 65, no: 01, pp.139-151, [doi:10.32604/cmc.2020.011416](https://doi.org/10.32604/cmc.2020.011416) 2020. [IF= 4.89, ISI Indexed, Q1].
10. Atif, S. A. R. Kazmi, **A. Atta**, M. F. Mushtaq, M. Idrees, I. Fakir, M. Safyan, Muhammad Adnan Khan and A. Qasim, "Intelligent Cloud-Based Load Balancing System Empowered with Fuzzy Logic", Computers, Materials & Continua (CMC), ISSN: 1546-2218 (print), ISSN: 1546-2226 (online), vol. 67, no. 1, pp. 519-528 , DOI: [10.32604/cmc.2021.013865](https://doi.org/10.32604/cmc.2021.013865) 2021. [IF= 4.89, ISI Indexed, Q1].
11. M. Gollapalli, . Atta-ur-Rahman, D. Musleh, N. Ibrahim, Ayesha Atta et al., "A neuro-fuzzy approach to road traffic congestion prediction," Computers, Materials & Continua (CMC), ISSN: 1546-2218 (print), ISSN: 1546-2226 (online), vol. 73, no.1, pp. 295–310, 2022. DOI: [10.32604/cmc.2022.027925](https://doi.org/10.32604/cmc.2022.027925) , 2022. [IF= 4.89, ISI Indexed, Q1].
12. **Ayesha Atta**, Muhammad Adnan Khan, Sagheer Abbas, Gulzar Ahmad, Muhammad Saleem Khan, "Adaptive IoT Empowered Smart Road Traffic Congestion Control System Using Supervised Machine Learning Algorithm", Paper is accepted in Computer Journal, ISSN: 0010-4620, E-ISSN: 1460-2067, Oxford Univ Press, Great Clarendon St, Oxford, England, OX2 6DP. May 2020. DOI: <https://doi.org/10.1093/comjnl/bxz129>. [IF=1.077, ISI Indexed, Q2].
13. A. Inam, Zhuli, A. Sarwar, S. Din, **A. Atta**, I. Naseer, S.Y. Siddiqui and Muhammad Adnan Khan, "Detection of Covid-19 Enhanced by a Deep Extreme Learning Machine", the paper is accepted in Intelligent Automation & Soft Computing (IASC), ISSN: 1079-8587 (print), ISSN: 2326-005X (Online), vol. 27, no. 3, pp. 701-712, [doi:10.32604/iasc.2021.014235](https://doi.org/10.32604/iasc.2021.014235), 2021. [IF= 1.276, ISI Indexed, Q2].
14. M. K. Hasan, M. A. Khan, G. F. Issa, **A. Atta**, A. S. Akram and M. Hassan, "Smart Waste Management and Classification System for Smart Cities using Deep Learning," 2022 *International Conference on Business Analytics for Technology and Security (ICBATS)*, 2022, pp. 1-7, doi: 10.1109/ICBATS54253.2022.9759087. [IF= 3.557, ISI Indexed, Q1].
15. Sagheer Abbas, Muhammad Adnan Khan, **Ayesha Atta**, Gulzar Ahmad, Anwar Saeed, Nida Anwar, "Multi-User Detection Using Fuzzy Logic Empowered Adaptive Back Propagation Neural Network (FLeABPNN)", Neural Network World, ISSN: 1210-0552 Acad Sciences Czech Republic, Inst Computer Science, Pod Vodarenskou Vezi 2, 182 07 Prague 8, Czech Republic. Vol: 19, issue: 06, pp. 381-401, DOI: [10.14311/NNW.2019.29.024](https://doi.org/10.14311/NNW.2019.29.024), 2019. [IF=0.957, ISI Indexed, Q3].
16. **Ayesha Atta**, Muhammad Adnan Khan, Sagheer Abbas, Gulzar Ahmad, Areej Fatima, "Modeling Smart Road Traffic Congestion Control System Using Machine Learning Techniques", Neural Network World, ISSN: 1210-0552 Acad Sciences Czech Republic, Inst Computer Science, Pod Vodarenskou Vezi 2, 182 07 Prague 8, Czech Republic, Volume 19, issue

2, 99-110 (2019), DOI: [10.14311/NNW.2019.29.008](https://doi.org/10.14311/NNW.2019.29.008). [IF=0.957, ISI Indexed, Q3].

17. Ayesha Atta, “Simulation and Performance Analysis of DSR, GRP and TORA Ad hoc Routing Protocol”, International Journal of Computer Science and Information Security. ISSN # : IJCSIS ISSN 1947-5500, Year of Publication : **2016**, Volume # : 14 No. 11 [IF=0.5, ISI Indexed].

18. Human Blood Pressure and Body Temp Analysis Using Fuzzy Logic Control System, IJCSNS International Journal of Computer Science and Network Security, VOL.17 No.12, December **2017**. Syeda Binish Zahra , Talmeez Hussain , **Ayesha Atta** , M. Saleem Khan.

7. JOURNAL EDITOR

International Journal of Advanced Sciences and Computing
Member of Editorial Board (National)

8. REFERENCES (PAKISTANI)

- 1) Dr. Tahir Alyas
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9. REFERENCES (INTERNATIONAL)

- 1) Dr. Muhammad Adnan Khan
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