DR SYED ZUBAIR AHMAD SHAH

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Current Position:

Assistant Professor, Department of Computer Science and Engineering,
Islamic University of Science and Technology, Awantipora, Jammu & Kashmir, India, 192122

Previous Positions held:

- Assistant Professor at *Jamia Hamdard, New Delhi*
- Guest Faculty at *BITS Pilani (WILP), New Delhi*
- Assistant Professor at *Ideal Institute of Technology, Ghaziabad*

Professional Qualification:

- Ph.D. in Computer Engineering from *Jamia Millia Islamia, New Delhi*
- M.Tech. in Information Technology from *Lingaya's University, Faridabad*
- B.E. in Computer Engineering from *University of Kashmir*

Recent Journal Publications:

1. Iqbal AB, Assad A, Bhat B, Macha MA, Shah SZ. MPNN-CWExplainer: An enhanced deep learning framework for HIV drug bioactivity prediction with class-weighted loss and explainability. Life Sciences. Jul 2025; 378:123835. *SCIE, IF: 5.1*

2. Iqbal AB, Masoodi TA, Bhat AA, Macha MA, Assad A, Shah SZ. Explainable AI-driven prediction of APE1 inhibitors: enhancing cancer therapy with machine learning models and feature importance analysis. Molecular Diversity. Feb 2025; 21:1-20. *SCIE, IF: 3.9*

3. Wani OA, Zahoor U, Shah SZ, Khan R. Apple leaf disease detection using transfer learning. Annals of Data Science. Feb 2025; 12(1):213–222. *SCOPUS, CiteScore: 8.5*

4. Nazir R, Hussain A, Shah SZ. Blockchain as an indispensable asset for educational institutions: a systematic review. International Journal of Electronic Security and Digital Forensics. Dec 2024; 17(1-2):45-59, *SCOPUS, CiteScore: 2.2*

5. Fayaz S, Shah SZA, Assad A. Revolutionizing Deep Learning: A Comprehensive Exploration and Comparison of Cutting-edge Data Augmentation Techniques. Recent Patents on Engineering. Oct 2024. *SCOPUS, CiteScore: 1.7*

6. Kumar MA, Basit A, Masoodi T, Chaudhary S, Assad A, Bhat MR, Shah ZA, Al-Shabeeb Akil AS, Bhat AA, Batra SK, Macha MA. Nuclear receptor subfamily 4A2: Novel role and a potential

therapeutic lead in cancers. (Abstract). Journal of Clinical Oncology. May 2024; 42:(16). *SCIE, IF: 42.1*

7. Iqbal AB, Shah IA, Injila, Assad A, Ahmed M, Shah SZ. A review of deep learning algorithms for modeling drug interactions. Multimedia Systems. Apr 2024; 30(3):124. *SCIE, IF: 3.3*

8. Gul N, Muzaffar K, Shah SZ, Assad A, Makroo HA, Dar BN. Deep learning hyperspectral imaging: a rapid and reliable alternative to conventional techniques in the testing of food quality and safety. Quality Assurance and Safety of Crops & Foods. Feb 2024; 16(1):78-97. *SCIE, IF: 5.3*

9. Fayaz S, Shah SZ, Mohi ud din N, Gul N, Assad A. Advancements in Data Augmentation and Transfer Learning: A Comprehensive Survey to Address Data Scarcity Challenges. Recent Advances in Computer Science and Communications. Jan 2024; 17:1-22. *SCOPUS, CiteScore: 3.0*

10. Shah S, Amjad M. Preceding Document Clustering by Graph Mining based Maximal Frequent Termsets Preservation. International Arab Journal of Information Technology, May 2019; 16(3):364-370. *SCIE, IF: 1.3*

Projects:

- Diagnosing and addressing psychological issues and mental disorders using Machine Learning, JKST&IC, Dec 2023, PI, ₹10.8 lakh, *Ongoing*
- Blockchain University: An immutable e-learning assessment platform using Blockchain, JKST&IC, Nov 2021, Co-PI, ₹2.95 lakh, *Completed*

Patents:

- Prayer Time Indicator Based on Internet of Things, Nov 2022, *Published*
- Automatic Paddy Transplanter using Robotic Arm, Oct 2024, *Published*

Reviewer:

- Knowledge-Based Systems, Elsevier
- Multimedia Tools and Applications, Springer
- Journal of Engineering and Applied Science, Springer

MOOCs:

NPTEL course *Data Science for Engineers* offered by *IIT Madras* – appeared in *proctored exam* – scored Elite+Silver, Jan-Mar 2019

_eL_earning Content Development:

Developed and uploaded ***55*** lectures on Computer Science to *YouTube* (*30,000+ views)*

Major Workshops Organised:

- Online Workshop/FDP on *Recent Research Trends in Information Technology*, 12-18 Sep 2020, 5 days, 130 participants from outside IUST, organiser and speaker
- Workshop *Data Science and Information Security Boot-Camp* at Islamic University of Science and Technology, Awantipora, 11-15 Jun 2019, 50 participants from outside IUST

Recent Workshops/FDPs/Webinars Attended:

- Online Faculty Development Program on *Systems & Software Security*, organised by IIT Madras, 14-23 Feb 2025
- Workshop on *Introduction to Embedded Systems and Robotics*, organised by e-Yantra, Department of Computer Science and Engineering, IIT Bombay at IUST, 21-22 Nov 2023
- International Workshop on *Role of Artificial Intelligence and Information Technology in Surgery and Medical Research,* organised by Department of Surgery, GMC Srinagar at GMC Srinagar, 28-29 Oct 2022
- One Month Online *Faculty Induction Programme*, UGC - HRDC, Jamia Millia Islamia, New Delhi, 28 Dec 2020 - 02 Feb 2021
- Online Workshop /Faculty-Development-Programme on *Recent Research Trends in Information Technology*, organised by Islamic University of Science and Technology, J&K in collaboration with MAKAUT, West Bengal, 12-18 Sep 2020
- Webinar on *Exploring Web of Science, End Note X9, Journal Citation Report & Incites for Promoting Excellence in Research*, 05 Jun 2020
- Webinar on *Accelerate Research Planning using Elsevier, ScienceDirect and Mendeley*, 04 May 2020
- Workshop on *Smart Sensors and IoT* at MAKAUT, West Bengal, 21-25 Oct 2019
- Workshop *Data Science and Information Security Boot-Camp* at Islamic University of Science and Technology, Awantipora, 11-15 Jun 2019

Additional Responsibilities:

- Coordinator - Academic Bank of Credits (ABC), IUST
- Co-Coordinator - Kalam Academy of Skill Development and Training, IUST
- Coordinator - Academics CSE
- Member - Departmental Monitoring Committee (DMC), CSE

Other Highlights:

- GATE qualified
- Two best paper awards