DR. FAISAL MEHMOOD



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Profession

2024–2026 **Postdoctoral Researcher— Shenzhen University, Shenzhen, | Guangdong, China.**

Online Profile

Google Scholar https://scholar.google.com/citations?user=kRjv578AAAAJ&hl=en

Linkedin https://www.linkedin.com/in/faisal-mehmood-01773a120/

Education

2019–2024 **PhD— School of Electrical and Information Engineering, Zhengzhou University | Henan, China.**
with 1st Division.

2015 – 2017 **MS(CS)— Department of Computer Science, University of Agriculture Faisalabad (UAF) | Punjab, Pakistan.**
with 1st Division.

2013 – 2015 **MSC(CS)— Department of Computer Science, University of Agriculture Faisalabad (UAF) | Punjab, Pakistan.**
with 1st Division.

2011 – 2013 **BSC— Islamia University Bahawalpur | Punjab, Pakistan**
with 1st Division.
Major Subjects: *Mathematics, Physics, Computer, English.*

2008 – 2010 **Intermediate— BISE Bahawalpur | Punjab, Pakistan** with 1st Division.
with 1st Division.
Major Subjects: *Mathematics, Physics, Chemistry, English.*

2006 – 2008 **Matriculation (10th grade)— BISE Bahawalpur | Punjab, Pakistan | Punjab, Pakistan**
with 1st Division.
Major Subjects: *Mathematics,Physics, Chemistry,Biology,English.*

Research Publications

- **Faisal Mehmood** Chulong Yuan, Jingliang Gong, Lixiao Li, Gang Hu, Chao Li, and Touqeer Abbas. "Accurate wind speed prediction using a Variational AutoEncoder integrated with a sequence-to-sequence-bidirectional long short-term memory-encoder-decoder architecture." **Engineering Applications of Artificial Intelligence (2025),Published.**

- **Faisal Mehmood** Abeer Abdulaziz Alsanad, Muhammad Azeem Akbar, Víctor Leiva, and Cecilia Castro. "Sentiment Analysis of Twitter Data on Quantum Computing: An Exploratory Silver-Label Baseline Study." **IET Software (2025),Published.**

- **Faisal Mehmood**, Enqing Chen, Xin Gao, Azeem Akbar, and Arif Ali Khan. "Extended Multi-stream Attention Adaptive Graph Convolutional Networks (EMS-AAGCN) for Skeleton-Based Human Action Recognition" **Computers in Human Behavior(2024),Published.**

- **Faisal Mehmood**, E. Chen, M. A. Zia, A. Alsanad, A. Alhogail, and Y. Li. "Advancements in Human Action Recognition through 5G/6G Technology for Smart Cities: Fuzzy Integral-based Fusion " **IEEE Transactions on Consumer Electronics (2024), Published.**

- **Faisal Mehmood**, Chen, E., Akbar, M. A., and Alsanad, A. A. "Human action recognition of spatiotemporal parameters for skeleton sequences using MTLN feature learning framework". **Electronics, (2021), Published**.

- **Faisal Mehmood**, and Sukana Zulfqar. "Effect of Human Related Factors on Requirements Change Management in Offshore Software Development Outsourcing: A theoretical framework." **Soft Computing and Machine Intelligence (2021), Published**.

- **Faisal Mahmood**, Abbas, K., Raza, A., Khan, M. A., and Khan, P. W. (2019). "Three dimensional agricultural land modeling using unmanned aerial system (UAS)". **International Journal of Advanced Computer Science and Applications, (2019), Published**.

- Ahmad, Usman, Tianlei Ma, Jing Liang, Ponnuthurai Nagaratnam Suganthan, Kunjie Yu, **Faisal Mehmood**, and Farhad Banoori, SSmall aerial object detection through FPN-DETR integrated with a novel alignment proposal network. **Journal: Applied Soft Computing, (2026), Published**.

- Narejo, Komal, Hongying Zan, Samih Mostafa, Faten Karim,**Faisal Mehmood**, and Ayesha Yaseen. "Enhancing multimodal sentiment analysis reliability: SentiGuard+ with Dirichlet evidence and selective prediction." **Journal of King Saud University Computer and Information Sciences (2026), Published**

- Abbas, Touqeer, Tehseen Zahra, Kiran Shehzadi, **Faisal Mehmood**, Abdul Razzaq, and Hui Li. "Harnessing Earth Observation and Machine Learning for Sustainable Development Goals." **Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery (2025), Published.**

Research Publications (continued)

- Razzaq, Abdul, Qamar Atta Ul Haq, Muhammad Aziz Ur Rehman, Sharaiz Shahid, Muhammad Azam Zia, **Faisal Mehmood**, Afzaal Hussain, and Hussain Dawood. "Machine Learning-Based Parametrization of Gaseous Optical Properties and VANET Anomaly Detection for Accelerated Climate and Cyber-Physical Simulations." **Transactions on Emerging Telecommunications Technologies (2025), Published**

- Ahmad, U., Liang, J., Ma, T., Yu, K., **Faisal Mehmood**, and Banoori, F., Small Aerial Object Detection through GAN-Integrated Feature Pyramid Networks, p.112834, (2025). Journal: Applied Soft Computing. **Published**.

- Aftab, M.,**Faisal Mehmood**, Sahibzada, K.I., Zhang, C., Jiang, Y. and Liu, K., Attention-Enhanced Multi-Task Deep Learning Model for Classification and Segmentation of Esophageal Lesions, (2025) Journal: ACS Omega. **Published**.

- A. Assiri, A. Gumaei, **Corresponding: Faisal Mehmood**, T. Abbas, and S. Ullah. "DeBERTa-GRU: Sentiment analysis for large language model" (2024). Journal: CMC-Computers, Materials & Continua. **Published**.
- S. Zulfiqar, M. A. Zia, **Corresponding: Faisal Mehmood**, A.Pervez, and T. Abbas. "Breast Cancer Diagnosis: A Transfer Learning-based System for Detection of Invasive Ductal Carcinoma (IDC)" (2024). Journal: Journal of Computing & Biomedical Informatic. **Published**.

- Abbas, T., Javed, U.,**Faisal Mehmood**, Raza, M. and Li, H., 2024, September. ChemGenX: AI in the Chemistry Classroom, (pp. 224-230), (2024). Conference: International Symposium on Artificial Intelligence for Education. **Published**.

- M. A. Zia , A. Ali, M. Gilani1, Faisal Mehmood, S. Ullah, and I. Anwar. "Blockchain-powered Accountability in Pharmaceutical Supply Chains " Journal of Computing & Biomedical Informatics (2024). **Published**

- Alkanhel, Reem, Abid Ali, Faisal Jamil, Muzammil Nawaz, **Faisal Mehmood**, and Ammar Muthanna. "Intelligent transmission control for efficient operations in SDN." CMC-Comput. Mater. Continua 71, no. 2 (2022): 2807-2825. **Published**.

- Shafiq, Muhammad, Qinghua Zhang, Muhammad Azeem Akbar, Tahir Kamal, **Faisal Mehmood**, and Muhammad Tanveer Riaz. "Towards successful global software development." In Proceedings of the Evaluation and Assessment in Software Engineering, pp. 445-450. 2020. **Published**.

- Hamza, Muhammad, Haibo Hu, Muhammad Azeem Akbar, **Faisal Mehmood**, Yasir Hussain, and Ali Mahmoud Baddour. "SIOT-RIMM: Towards secure IOT-requirement implementation maturity model." Proceedings of the Evaluation and Assessment in Software Engineering (2020): 463-468. **Published**.

- Akbar, Muhammad Azeem, Zhiqiu Huang, Zhou Yu, **Faisal Mehmood**, Yasir Hussain, and Muhammad Hamza. "Towards continues code recommendation and implementation system: An Initial Framework." In Proceedings of the Evaluation and Assessment in Software Engineering, pp. 439-444. 2020. **Published**.

Publications Under Process

- **Faisal Mehmood**, Chulong Yuan, Lixiao Li, and Touqeer Abbas. "SAGE-LLM: A Stationary Aware Generative Ensemble for Probabilistic Wind Speed Forecasting"- Journal of Wind Engineering & Industrial Aerodynamics. **Under Review**

- **Faisal Mehmood**, Chulong Yuan, Lixiao Li, Touqeer Abbas, and Shaiza Talib. "Critical Assessment and Evolutionary Role of Deep Learning Techniques for Wind Speed Forecasting"- Interdisciplinary Sciences: Computational Life Sciences. **Under Review**

- **Faisal Mehmood**, Lixiao Li, Abdul Razzaq, and Touqeer Abbas. "Automated Wind Speed Forecasting with DeepSeek-R1: A Large Language Model-based Code Generation Framework"- Wind Engineering Journal. **Submitted**

- **Faisal Mehmood**,Touqeer Abbas, and Sami Ullah. "Improving Arabic Text Sentiment Analysis using Aspect-based Sentiment and Word-level Hierarchical Attention Networks"- International Journal of Speech Technology. **Submitted**

Employment History

2017 – 2019
- Punjab Group Colleges, PGC, Faisalabad Pakistan.
  Responsibilities
  Teaching the classes of Intermediate and undergraduate. Courses.
  Managing the database of the college.

2018 – 2019
- 1-year teaching experience as a Lecturer in Govt postgraduate college of Science Samanabad, Faisalabad, Pakistan.
  Responsibilities
  Teaching undergraduate courses.
- Visiting Lecturer experience at the University of Agriculture Faisalabad (UAF) Pakistan.
  Responsibilities
  Teaching undergraduate Courses
  Project Supervised: Computer Graphics, Solar Detector, Blood Bank Software.

2020 – 2021
- Visiting Lecturer experience at the University of Education Faisalabad (UEF) Pakistan.
  Responsibilities
  Teaching undergraduate Courses

2021 – 2022
- Visiting Lecturer in GC University Faisalabad (GCUF) Pakistan
  Responsibilities
  Teaching undergraduate Courses: C++, Object Oriented, Architecture, Database, Data Structure, Web Developing, Theory of Automata, Multimedia).

Work Experience

Nov 2016 – Nov 2017
- **Software Developer**: 1 year working as IT Assistant and Software Engineer in Macrosols Technology Faisalabad Pakistan.
  Responsibilities
  Managing the website of the company.
  Operating the payroll system of the company.

Dec 2019 – May 2020
- **Database Developer**: Six Months working as an Internee Database Developer in Webnomics Faisalabad Pakistan.
  Responsibilities
  Learning the database system.

Work Shops/Seminars/Conferences

- Attended Chines Language Classes under the Confucius Institute in the University of Agricultural Faisalabad, Punjab Pakistan.
- Attended workshop at the University of Agricultural Faisalabad, Punjab Pakistan on Latex software.
- Attended Conference at University of Agricultural Faisalabad, Punjab Pakistan on "Manipulation and Managing of Big Data by Using Data Mining approach".
- Attended Conference at University of Agricultural Faisalabad, Punjab Pakistan on "Machine learning and Neural Network".
- Attended Workshop in Government University of Agricultural Faisalabad, Punjab Pakistan on "Networking".
- Attended Seminar in University of Agricultural Faisalabad, Punjab Pakistan on "How Computer Like Human".
- Attended Workshop in University of Agricultural Faisalabad, Punjab Pakistan on Mendeley Software training.
- Attended Conference in Islamia University of Bahawalpur, Punjab Pakistan on "Machine learning and Neural Network".
- Attended Workshop in Bahauddin Zakariya University Multan, Punjab Pakistan on "Networking".
- Attended Workshop in MNS University of Agricultural Multan, Punjab Pakistan on "Latex software".
- Attended Seminar in Islamia University of Bahawalpur, Punjab Pakistan on "How Computers Like Human".

Reviewer in Journals/Conferences

- Different journal of IEEE
- Different journal of Elsevier
- Journal of Software: Evolution and Process
- Information Resources Management Journal (IRMJ)
- International journal of Information Systems and Project Management
- Complexity | Hindawi

Awards / Achievements

- Microsoft .NET Training
- Merit Scholarship throughout undergraduate and graduate degree
- Laptop awarded by PM of Pakistan
- Managed IEEE-WIE workshop held at GC University Faisalabad, 2013
- Won a programming Competition in 2013 held at the College of Computer Science and Information Studies Agricultural University Faisalabad
- Recipient of Chief Minister's Laptop Scheme.
- Winner Essay Writing Competition 2023 held at Zhengzhou University.

Skills

Languages	Strong reading, writing and speaking competencies for English, Urdu.
Coding	Python, C/C++, c#, MATLAB, Arduino.
Software Packages	Git, Github, Docker, MS-Office, LATEX.
Web Dev	HTML, CSS, Apache Web Server, Postgresql.
Misc.	Academic research, teaching, training, consultation, publishing.
AI & Data Science	Expertise in Machine Learning, Deep Learning, Computer Vision, and Time-Series Forecasting; experience with TensorFlow, PyTorch, Scikit-learn, and data-driven modeling techniques.
Research & Academic Skills	Strong background in academic research, scientific writing, publishing, and peer review; experienced in experimental design, data analysis, and reproducible research.

Professional Skills

- Proactive approach and initiative
- Proficient in the use of new media such as the internet to promote interactive learning
- Strong programming and technical implementation skills
- Strong collaboration skills in multicultural environments
- Excellent interpersonal and communication skills
- Good performer under pressure and deadlines
- Flexible in working with teams as team member and leader
- Strong analytical and problem-solving abilities
- Excellent research and critical thinking skills
- Cool minded and composed

Research Interest

- Deep Learning
- Computer Vision
- Human Action Recognition (HAR)
- Natural Language Processing

Research Interest (continued)

- Large Language Model
- Wind Energy
- Wind Speed Forecasting

References

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