Curriculum Vitae

Dr. ARIF HUSSAIN

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ABOUT ME:

I hold a PhD in Computer Science and Technology, with specialized research expertise in Machine Learning, Data Science, Wireless Networks, Future Internet Architecture, and Blockchain. Currently, I am serving as a Visiting Faculty member at the Information Technology Center, Sindh Agriculture University Tandojam, Pakistan. My academic journey is driven by a passion for advancing knowledge in these cutting-edge fields and sharing insights with the next generation of IT.

EDUCATION:

Ph.D. (Computer Science) Beijing University of Posts and Telecommunications, Beijing, China	2024	1st Division
MS (Computer Science) Shah Abdul Latif University Khairpur, Pakistan	2017	1st Division
Bachelor (Education) Shah Abdul Latif University Khairpur, Pakistan	2012	1st Division
BS (Computer Science) Shah Abdul Latif University Khairpur, Pakistan	2009	1st Division

THESIS/ PROJECTS:

PhD Thesis:

Research on Attacks Detection and Prevention in Vehicular Named Data Network

MS Thesis:

Critical Analysis of Web Censorship in Pakistan.

B.S Project:

Hospital Management System of Chandka Medical College and Hospital Larkana, Sindh, Pakistan

EXPERIENCE:

Visiting Faculty: Sindh Agriculture University, Tandojam, Pakistan: 2024 – To date

Lecturer (Computer Science): Army Public College Pano Aqil Cantt, Sindh, Pakistan. 2011– 2015

RESEARCH PUBLICATIONS:

Journals:

[1]   Ahmed, N., Hassan, F., Aurangzeb, K., **Magsi, A. H.**, & Alhussein, M. (2024). Advanced machine learning approach for DoS attack resilience in internet of vehicles security. *Heliyon*, *10*(8).

[2]   Soothar, K. K., Chen, Y., **Magsi, A. H.**, Hu, C., & Shah, H. (2024). Optimizing Optical Fiber Faults Detection: A Comparative Analysis of Advanced Machine Learning Approaches. *Computers, Materials & Continua*, *79*(2).

[3]   **Magsi, A. H.**, Muhammad, G., Karim, S., Memon, S., & Ali, Z. (2023). Push-Based Content Dissemination and Machine Learning-Oriented Illusion Attack Detection in Vehicular Named Data Networking. *Computers, Materials & Continua*, *76*(3).

[4]   **Magsi, A. H.**, Mohsan, S. A. H., Muhammad, G., & Abbasi, S. (2023). A Machine Learning-Based Interest Flooding Attack Detection System in Vehicular Named Data Networking. *Electronics*, *12*(18), 3870.

[5]   **Magsi, A. H.**, Yovita, L. V., Ghulam, A., Muhammad, G., & Ali, Z. (2023). A content poisoning attack detection and prevention system in vehicular named data networking. *Sustainability*, *15*(14), 10931.

[6]   **Magsi, A. H.**, Ghulam, A., Memon, S., Javeed, K., Alhussein, M., & Rida, I. (2023). A machine learning-based attack detection and prevention system in vehicular named data networking. *Computers, Materials & Continua*, *77*(2), 1445-1465.

[7]   Abbasi, E. Y., Deng, Z., **Magsi, A. H.**, Ali, Q., Kumar, K., & Zubedi, A. (2023). Optimizing Skin Cancer Survival Prediction with Ensemble Techniques. *Bioengineering*, *11*(1), 43.

[8]   Hassan, F., Yu, J., Syed, Z. S., **Magsi, A. H.**, & Ahmed, N. (2023). Developing Transparent IDS for VANETs Using LIME and SHAP: An Empirical Study. *Computers, Materials & Continua*, *77*(3).

[9]   Karim, S., He, H., Laghari, A. A., **Magsi, A. H.**, & Laghari, R. A. (2021). Quality of service (QoS): measurements of image formats in social cloud computing. *Multimedia Tools and Applications*, *80*, 4507-4532.

[10]   Talpur, M. S. H., Shaikh, A., Khokhar, H. B., Shah, A. A., Ul, N., Abbasi, **Magsi, A. H.**, & Memon, A. S. (2021). An Edge based Offloading Scheme for Universities. *Indian Journal of Economics and Business*, *20*(3).

[11]   Karim, S., He, H., Laghari, A. A., Memon, K. A., Khan, M., & **Magsi, A. H**. (2020). The evaluation video quality in social clouds. *Entertainment Computing*, *35*, 100370.

[12]   Panhwar, M. A., Khuhro, **Magsi, A.H.**, S. A., Liang, D. Z., & Panhwar, G. (2020). Workflow-based Approach in Cloud Computing Environment. *Jour of Adv Research in Dynamical & Control Systems*, *12*(7).

[13]   Memon, S., Soothar, K. K., Memon, K. A., **Magsi, A. H.**, Laghari, A. A., Abbas, M., & ul Ain, N. (2020). The design of wireless portable electrocardiograph monitoring system based on ZigBee. *EAI Endorsed Transactions on Scalable Information Systems*, *7*(28), e6-e6.

[14]   Soothar, K. K., Uqaili, R. S., Memon, S., **Magsi, A. H.**, Uqaili, J. A., & Rashid, M. (2019). Implementation of Multiprotocol Label Switching VPN over IPv6. *IJCSNS*, *19*(12), 142.

Conferences:

[1]   Shaikh, H., Jamro, W. A., Mahar, J. A., **Magsi, A. H.**, & Bhatti, A. H. (2016). Does social media impacts learning? An empirical study. In *1st International Conference on Innovations in Computer Science & Software Engineering. NED University, Karachi, Sindh, Pakistan*.

RESEARCH EXPERTISE:

- Aritificial Intelligence (Machine Learning and Deep Learning)
- Data Science
- Future Internet Architecture (Information-Centric Network)
- Intrusion Detection
- Network Security
- Vehicular Ad-hoc Network
- Blockchain

SKILLS:

- Python Programming
- NS-3 simulator
- Hyper ledger and Ethereum
- Jupiter Notebook
- Latex
- Network Configuration
- Moodle
- Hands-on Cisco Devices
- Office 365

COURSES/ TRAININGS

- Training Course on Blockchain Technology Application in e-Government: Cambodia – 1 Week
- 2017 Next Generation Telecommunication Contraction for Developing Counties: Wuhan, China – 1 Month
- CCNA Certification Course: Institute of Business Administration Sukkur, Sindh, Pakistan – 3 Months
- Hardware & Networking Course: NAVTEC Islamabad – 3 Months

AWARDS AND ACHIEVEMENTS:

- Certificate of Appreciation for the installation of an IP-based video security surveillance system at Sindh Agriculture University Tandojam, Sindh.
- Teacher of the Year 2014 award from Army Public College Pano Aqil Cantt
- Best Co-Curricular events organizer award from Army Public College Pano Aqil Cantt
- Certificate of Excellence from Classic Institute of Information Technology Larkana, Sindh

LANGUAGE PROFICIENCY

- English
- Urdu
- Sindhi
- Balochi

RESEARCH/ PROFESSIONAL ACTIVITIES

- Reviewer IEEE Access Journal
- Reviewer Super Computing Journal
- Advisory/Review Board Member LC International Journal of STEM
- Reviewer Computers, Materials and Continue Journal

PERSONAL INFORMATION

Date of Birth: 20-06-1988

Passport Number: BU0914403

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REFERENCES

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