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What do I think of myself?

I am a self-motivated machine learning researcher who strives to enable real-world deployment of machine learning models that people can trust.

Education

Sep 2023 – Ongoing	University of New South Wales (UNSW), Sydney, Australia <i>PhD in Trustworthy Machine Learning</i>
Sep 2017 – Aug 2019	National University of Sciences and Technology (NUST), Islamabad, Pakistan <i>MS in Electrical Engineering</i>
Sep 2013 – Aug 2017	University of Engineering and Technology (UET), Lahore, Pakistan <i>BS in Electrical Engineering</i>

Work Experience

Sep 2021 - Sep 2023	Information Technology University (ITU) <i>Research Assistant</i> <ul style="list-style-type: none">Human-centric Robust ML-driven IoT Smart Services
Jan 2021 - Nov 2021	Information Technology University (ITU) <i>Research Assistant</i> <ul style="list-style-type: none">Mitigating Anti-social Behavior through Beneficial AI

Publications

2023	<ol style="list-style-type: none">Ali, H., Khan, M. S., AlGhadhban, A., Alazmi, M., Alzamil, A., Al-utaibi, K. & Qadir, J. Con-detect: Detecting adversarially perturbed natural language inputs to deep classifiers through holistic analysis. <i>Computers & Security</i> 125, 103367 (2023).Butt, M. A., Qayyum, A., Ali, H., Al-Fuqaha, A. & Qadir, J. Towards secure private and trustworthy human-centric embedded machine learning: An emotion-aware facial recognition case study. <i>Computers & Security</i> 125, 103058 (2023).Qayyum, A., Butt, M. A., Ali, H., Usman, M., Halabi, O., Al-Fuqaha, A., Abbasi, Q. H., Imran, M. A. & Qadir, J. Secure and Trustworthy Artificial Intelligence-Extended Reality (AI-XR) for Metaverses. <i>ACM Comput. Surv.</i> (2023).
2022	<ol style="list-style-type: none">Ali, H., Khan, M. S., Al-Fuqaha, A. & Qadir, J. Tamp-X: Attacking explainable natural language classifiers through tampered activations. <i>Computers & Security</i> 120, 102791 (2022).
2021	<ol style="list-style-type: none">Ali, H., Khan, M. S., AlGhadhban, A., Alazmi, M., Alzamil, A., Al-Utaibi, K. & Qadir, J. All your fake detector are belong to us: evaluating adversarial robustness of fake-news detectors under black-box settings. <i>IEEE Access</i> 9, 81678–81692 (2021).Petrack, N., Akbar, S., Cha, K. H., Nofech-Mozes, S., Sahiner, B., Gavrielides, M. A., Kalpathy-Cramer, J., Drukker, K., Martel, A. L. & BreastPathQ Challenge Group, f. t. SPIE-AAPM-NCI BreastPathQ Challenge: an image analysis challenge for quantitative tumor cellularity assessment in breast cancer histology images following neoadjuvant treatment. <i>Journal of Medical Imaging</i> 8, 034501–034501 (2021).

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| 2020 | 7. Khalid, F., Ali, H. , Hanif, M. A., Rehman, S., Ahmed, R. & Shafique, M. <i>FaDec: A Fast Decision-based Attack for Adversarial Machine Learning</i> in <i>2020 International Joint Conference on Neural Networks (IJCNN)</i> (2020), 1–8. |
| 2019 | <div>8. Ali, H., Khalid, F., Tariq, H. A., Hanif, M. A., Ahmed, R. & Rehman, S. SSCNets: Robustifying DNNs using Secure Selective Convolutional Filters. <i>IEEE Design & Test</i> 37, 58–65 (2019).</div> <div>9. Khalid, F., Ali, H., Tariq, H., Hanif, M. A., Rehman, S., Ahmed, R. & Shafique, M. <i>QuSecNets: Quantization-based defense mechanism for securing deep neural network against adversarial attacks</i> in <i>2019 IEEE 25th International Symposium on On-Line Testing and Robust System Design (IOLTS)</i> (2019), 182–187.</div> |