Hassan Ali

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What do I think of myself?

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

Education

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

Work Experience

Sep 2021 - Sep 2023

Information Technology University (ITU)

Research Assistant

Human-centric Robust ML-driven IoT Smart Services

Jan 2021 - Nov 2021

Information Technology University (ITU)

Research Assistant

• Mitigating Anti-social Behavior through Beneficial AI

Publications

2023

- 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. Computers & Security 125, 103367 (2023).
 - 2. Butt, M. A., Qayyum, A., Ali, H., Al-Fuqaha, A. & Qadir, J. Towards secure private and trustworthy humancentric embedded machine learning: An emotion-aware facial recognition case study. Computers & Security **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. ACM Comput. Surv. (2023).

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Ali, H., Khan, M. S., Al-Fuqaha, A. & Qadir, J. Tamp-X: Attacking explainable natural language classifiers through tampered activations. Computers & Security 120, 102791 (2022).

- 5. 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. IEEE Access 9, 81678-81692 (2021).
- 6. Petrick, 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. Journal of Medical Imaging 8, 034501-034501 (2021).

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