NAFIZ SADMAN

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EXPERIENCES

Front-end Developer (1 year) Jan 2024 – Present
Smith School of Electrical and Computer Engineering, Queen's University
Develop a visualization research tool for streaming data from PID controllers using: Python Socket IO, HTML5, CSS3, JavaScript

Graduate Teaching Assistant (2 years) Jan 2023 – Present
School of Computing, Queen's University
APSC 141: Introduction to Computer Programming for Engineers
CISC 151: Elements of computing with data analytics
CISC 235: Data Structures
CISC 447: Introduction to cybersecurity
CISC 423: Software requirements
Duties: Assist with marking, proctoring, conducting lab sessions, and office hours.

Research Intern (5 months) Oct 2022 - Feb 2023
Pfizer Canada (with MITACS)
Extract, transform, and analyze Electronic Health Records to understand patient clinical characteristics, demographics, and comorbidities.
Extraction and Transformation using Pandas, mySQL, numpy, sklearn.
Analysis with Pandas and visualization with seaborn.
Statistical prediction with k-means clustering and logistic regression.

Machine Learning Engineer (3 years) Aug 2019 - Jul 2022
Silicon Orchard Ltd ,Dhaka, Bangladesh
Built an internal data analytics tool based on text data using NLP techniques.
Worked on bio-informatics applications.
Built an HR Analytics tool to extract relevant potential CEO Candidates for a Silicon Valley HR Company using BERT.
Stylometric Analysis of Authorship Attribution.
Data Mining and Information Extraction.
Developing Deep Reinforcement Learning Algorithms.
Team Management.
Software development and ML production in Django.

ACADEMICS

Ph.D. Candidate Pursuing
School of Computing, Queen's University
Multimodal XAI.

M.Sc in Cybersecurity Degree Conferred
School of Computing, Queen's University
Thesis: Passive Liveness Detection using Depth and rPPG for Face Presentation Attack Detection

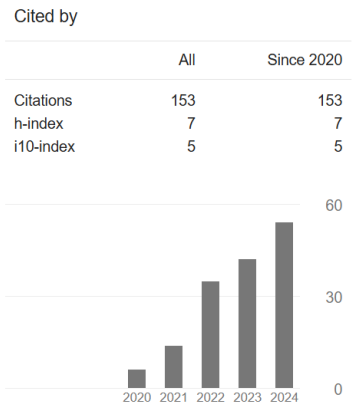
PUBLICATIONS

Highlights:

- Sadman, N., Hasan, K.A., Rashno, E., Alaca, F., Tian, Y., Zulkernine, F. (2023 December). Vulnerability of Open-source Face Recognition Systems to Blackbox Attacks: A Case Study With InsightFace. In 2023 IEEE Symposium on Computational Intelligence in Cyber Security (IEEE CICS)}.
- Sadman, N., Sadmanee, A., Gupta, K. D., & George, R. (2022, December). HeteroGenius: An Improvised 'Intelligence'in Heterogeneous Graph Transformers. In 2022 21st IEEE International Conference on Machine Learning and Applications (ICMLA) (pp. 849-854)

First Authored Publication: 10 **Venues:** ICML, ICMLA, SSCI, ICSOFT, ICSEA, CCWC

Google Scholar



CERTIFICATIONS

- Deep Learning Certification by *Deeplearning.AI*
- TensorFlow in Practice Certification by *Deeplearning.AI*

REFERENCES

Dr. Farhana Zulkernine, Ph.D., P.Eng.

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Dr. Furkan Alaca, Ph.D.

Assistant Professor, School of Computing, Queen's University
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Dr. Kishor Datta Gupta, Ph.D.

Assistant Professor, School of Physical Scheicens, Clark Atlanta University
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