Curriculum Vitae of

Md. Amjad Hossain, Ph.D
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RESEARCH INTERESTS	Data Science, Multimedia Computing and Networking, Distributed Systems, Evolutionary Computing.
EDUCATION	**Ph.D**. in Computer Science, Kent State University, USA, December 2020
	Dissertation Topic: Design of Crowd-Scale Multi-Party Telepresence System with Distributed Multipoint Control Unit Based on Peer To Peer Network
	Bachelor of Science in Computer Science & Engineering (CSE), March 2008.

Classification and Sentiment Analysis of Highway Work-zone Tweets using Machine Learning and Natural Language Processing. This is a collaborative research project involving researchers from different universities in the USA.

Bandwidth Estimation for Future Bigdata Collaboration Network: We are analyzing the research collaboration data of the authors of project proposals and papers to estimate the bandwidth requirements of future big data collaboration networks.

Distributed Multipoint Control Unit (MCU): The goal is to support Large-scale Video conferencing based on P2P networks without using expensive statically placed servers provided by different service providers.

Beyond Herd Immunity: Post-pandemic analysis of COVID-19 using Mathematical Modeling and Machine learning for developing a general pandemic prediction model for Future COVID-like Infectious Diseases.

Emotional and Sentimental Analysis of the Russian-Ukraine War
using NLP methods. In this project, we also analyze people's perspectives on cyber warfare using Reddit posts.

GRANTS

1. Machine learning model for COVID-19 trend prediction considering top factors of the pandemic. Research Enhancement Award by Shepherd University and West Virginia Space Grant Consortium, Spring 2021. [$5000]21.74 Tm0 g0 G[(Machin)-4(e lear)-3(ni)-2(ng)-4(mo

5. Kawser Wazed Nafi, Tonny Shekha Kar, **Md. Amjad Hossain** and M. M. A. Hashem, "A fuzzy logic-based certain trust model for E-commerce," *2013 International Conference on Informatics, Electronics and Vision (ICIEV)*, Dhaka, 2013.

6. Kawser Wazed Nafi, Tonny Shekha Kar, **Md. Amjad Hossain** and M. M. A. Hashem, "A new trusted and secured E-commerce architecture for cloud computing," *2013 International Conference on Informatics, Electronics and Vision (ICIEV)*, Dhaka, 2013, pp. 1-6. DOI: 10.1109/ICIEV.2013.6572690

7. Kawser Wazed Nafi, Tonny Shekha Kar, **Md. Amjad Hossain**
fuzzy and probabilistic logic-
International Conference on Informatics, Electronics & Vision (ICIEV), May 18-19, 2012, Dhaka, Bangladesh.

8. Pintu Shill, **Md. Amjad Hossain**,   An Adaptive Fuzzy Logic Controller based on Quantum-Inspired Evolutionary Algorithm   *2011 IEEE International Conference on Fuzzy Systems,* E-ISBN: 978-1-4244-7316-8 , Print ISBN: 978-1-4244-7315-1, pp. 614   621, June 27-30, 2011, Grand Hyatt, Taipei, Taiwan.

9. **Md. Amjad Hossain**, Pintu Chandra Shill, Md. Kowsar Hossain and Kazuyuki Murase,

    13ᵗʰ International Conference on Computer and Information Technology (ICCIT), ISBN: 978-1-4244-8496-6, pp. 51   56, December 23-25, 2010, Dhaka, Bangladesh.

10. Md. Kowsar Hossain, **Md. Amjad Hossain,**   Quantum Evolutionary Algorithm Based on Particle Swarm Theory for Multiobjective Problems   *13ᵗʰ International Conference on Computer and Information Technology (ICCIT),* ISBN: 978-1-4244-8496-

1. Mitchell Regan, Seth Kern and **Md Amjad Hossain**, A study on predictive models for estimating the probability of default loan in Peer-to-Peer lending. **(To be submitted soon)**.

2. Sayed, Md Abu and **Hossain, Md. Amjad** and Rahman, Md Mokhlesur and Ali, G. G. Nawaz and Islam, Mohammad Anwarul and Paul, Kamal Chandra and Qin, Xiao, Machine Learning Based Public Sentiment Analytics on Roadway Work-Zone Tweets. *IEEE Transactions on Computational Social Systems.* (Under Review).

3. **Md Amjad Hossain** and Others (Author order is not decided yet).
Hybrid Mathematical Model to Predict Herd Immunity for Infectious Diseases: Application to COVID-

TRAINING & CERTIFICATION	**CompTIA Security + Certification (Code: 47VPSWGTCNB41TCR)**
	Quality Matters (QM) Independent Designing Your Online Course (DYOC)
	Participated in two GENI Engineering Conferences (GEC 18 and GEC19) where I learned to use and manage GENI resources and implement Software Defined Networks.
	Completed CCNA (Cisco Certified Network Associate): CCNA 1, CCNA 2, CCNA 3, CCNA 4.
	Participated in the "Joint ICTP-TWAS First ICTP Regional Microelectronics Course on VHDL for Hardware Synthesis and FPGA Design in South and Southeast Asia" held on 31 Jan to 18 Feb 2011.
ONLINE COURSES & CERTIFICATION	Machine Learning by Andrew Ng, Stanford University (certificate)
	Machine Learning, Data Science and Deep Learning with Python, Udemy (In progress)
	MIT 6.S191 Introduction to Deep Learning (In progress)
SKILLS AND KNOWLEDGE	**Programming Languages:**

MEMBERSHIP	Member of IEEE, The Institute of Electrical and Electronics Engineers.
VOLUNTEER AND LEADERSHIP	**Session Chair** IEEE CLOUDNET 2023, IEEE ISM 2015,
	The **reviewer** of Springer Nature, IEEE Access, JNCA -Elsevier, CSAE2018, ICCA 2020, EICT 2021.
	Graduate Student Senator, Department of Computer Science, KSU, 2017-18
	Initiator and co-founder of Bangladesh Student Association, Kent State University. 2017.
	Member of Local Management Committee in the 11th International Conference on Computer and Information Technology (ICCIT 2008), which was held in KUET, Khulna - 9203, Bangladesh, from 24 27 December 2008.
	The founding faculty of SGIPC, The Special Group of Interest in Programming Contest, KUET, Bangladesh.
	Organizing committee member of the KUET Programming Contest.
	Coach of programming contest group of KUET for several events in Bangladesh.

Regards
Md Amjad Hossain