

Md Zabirul Islam

CONTACT INFORMATION	<p>Troy, NY, USA Google Scholar LinkedIn GitHub</p> <p>Phone: (+1) (518) 805-7992 Email: islamm11@rpi.edu Web: zabirulislam</p>
RESEARCH INTERESTS	Machine Learning, Deep Learning, Natural Language Processing, Medical Imaging, Health Informatics, and Bioinformatics.
PROFESSIONAL APPOINTMENTS	<p>Daffodil International University Dhaka, Bangladesh <i>Lecturer</i> Jan. 2021 – Dec. 2023 Department of Computer Science and Engineering</p> <ul style="list-style-type: none"> CSCE235: Introduction to Numerical Methods Enrollment: 200 <i>Fall 2021 – Dec. 2023</i> CSCE427: Digital Image Processing Enrollment: 110 <i>Fall 2023</i> CSCE214/215: Algorithm Analysis and Design Enrollment: 70 <i>Summer 2021</i> CSCE411/412: Artificial Intelligence Enrollment: 35 <i>Spring 2021</i> CSCE311/312: Database Management System Enrollment: 35 <i>Spring 2021</i>
EDUCATION	<p>Rensselaer Polytechnic Institute Troy, NY, USA (Jan 2024 – Present) PhD student in Computer Science Course Taken: CSCI 6360: Parallel Computing (A), CSCI 6964: AI and Blockchain (A), ADMN 6800: TA Training (S)</p> <p>Khulna University of Engineering and Technology Khulna, Bangladesh <i>B.Sc. in Computer Science and Engineering</i> Mar 2020 CGPA: 3.71 out of 4.00 (10th among 134 students) Course Taken: Artificial Intelligence, Machine learning, Natural language processing, Data mining, Biomedical Engineering, Applied statistics and queuing theory.</p>
PUBLICATIONS	Summary: 3 Journals and 5 Conferences on Machine learning (Citations:850+)
PEER-REVIEWED Journal	<ul style="list-style-type: none"> Md. Zabirul Islam, Md. Milon Islam, Amanullah Asraf, “A combined deep CNN-LSTM network for the detection of novel coronavirus (COVID-19) using X-ray images”- (Informatics in Medicine Unlocked, Vol-20,2020,100412) (Citations - 690+) Md. Milon Islam, Md. Zabirul Islam, Amanullah Asraf, Mabrook S. Al-Rakhami, Ali Hassan Sodhro, Weiping Ding. “Diagnosis of COVID-19 from X-rays Using Combined CNN-RNN Architecture with Transfer Learning”- (BenchCouncil Transactions on Benchmarks, Standards and Evaluations, Volume 2, Issue 4, October 2022, 100088) Amanullah Asraf, Md. Zabirul Islam, Md. Rezwanul Haque, Md. Milon Islam. “Deep Learning Applications to Combat Novel Coronavirus (COVID-19) Pandemic”- (SN COMPUT. SCI. 1, 363, 2020)

PEER-REVIEWED Conference	<ul style="list-style-type: none"> • A. Pramanik, A. Sarker, Md. Zabirul Islam and M. M. A. Hashem, "<i>Public Sector Corruption Analysis with Modified K-means Algorithm Using Perception Data</i>" - (11th International Conference on Electrical and Computer Engineering (ICECE), 2020, pp. 198 • Md. Motaleb Hossen Manik, Fabliha Haque, M.M.A. Hashem, Md. Ahsan Habib, Md. Zabirul Islam and Tanim Ahmed "<i>A Hybrid Framework for Sentiment Analysis from Bangla Texts</i>" - (25th International Conference on Computer and Information Technology (ICCIT), Cox's Bazar, Bangladesh, 2022, pp. 517-522) • Md Motaleb Hossen Manik, Anite Halim Sagor, Md Ahsan Habib, Md Mossadek Touhid, Tanim Ahmed, Md Zabirul Islam, Fabliha Haque "<i>Redefining Crime Record Storage: An Advanced Architecture Harnessing the Power of Blockchain Technology</i>" (2023 26th International Conference on Computer and Information Technology (ICCIT)) • Md. Motaleb Hossen Manik, Md. Zabirul Islam, Fabliha Haque, Md. Ahsan Habib, and Tanim Ahmed, "<i>Analyzing the Dynamics of COVID-19 Lockdown Success: Insights from Regional Data and Public Health Measures</i>" – (International Conference on Big Data, IoT and Machine Learning 2023) • Ling Yue, Jonathan Li, MD Zabirul Islam, Bolun Xia, Jintai Chen, Tianfan Fu "<i>TrialDura: Hierarchical Attention Transformer for Interpretable Clinical Trial Duration Prediction</i>" - Machine Learning for Healthcare 2024. – (Submitted)
PROFESSIONAL TRAINING	<ul style="list-style-type: none"> • Seminar on the vicinity of Generative AI, LMM, and Prompt Engineering. • Thought provoking workshop on teaching pedagogy by Prof. Subramania from USA. • Outcome-based Education Practice Using OBE Tracking. • Webinar on Research Talk: Improving Research Ideas & Gap Findings. • Designing Alternative Assessments - In Inclusive Teaching & Learning.
AWARDS	<ul style="list-style-type: none"> • Dean's Award of the faculty of EEE in recognition of outstanding performance. • General Scholarship for in Higher Secondary School Certificate exam. • Certification in online course <i>AI for Medical Diagnosis</i> by Rajpurkar on Coursera. • Certification in online course <i>Deep Learning Specialization</i> by Andrew Ng on Coursera. • Certification in online course <i>TensorFlow in Practice Specialization</i> by Laurence
ACADEMIC PROJECTS	<ul style="list-style-type: none"> • Fake Bangladeshi Currency Detection Using Deep Learning Algorithm Python, Keras • Job Management System MySQL, PI-SQL • Islamic Resource Site ASP.net, HTML, JavaScript, Ajax, MySQL • News-Reader App Java, IDE: Android studio
TECHNICAL SKILLS	<p><i>Machine Learning:</i> Naive Bayes, Decision Tree, XG Boost, Gradient Boost, Random Forest, SVM, KNN, LSTM, CNN, RNN, NumPy, Pandas, Seaborn, Keras, Scikit-learn.</p> <p><i>Programming:</i> Python, Java, C, C++</p> <p><i>IDE:</i> CodeBlocks, Eclipse, Pycharm, Jupyter, Google Colab.</p> <p><i>Operating System:</i> Windows, Ubuntu, iOS.</p> <p><i>Mobile Apps:</i> Android Studio, Xcode (iOS)</p>