Ananda Mohon Ghosh

LinkedIn | GitHub | Personal Site

email: gdm.anandamohon@gmail.com
cell: 2269263930 | London, ON, Canada

Work Experience

Research Assistant (May 2018 – Present) | WESTERN UNIVERSITY London, ON, Canada.
Working on Edge computing on IoT data incorporating deep learning towards reducing the data latencies and making the cloud machine leaning execution faster. Focused on Autoencoders in the edge layers for data reduction and RNN's + FFNN in the cloud layer for indicating the class. [1 conference + 1 Journal]

Software Engineer (June 2016 – April 2018) | DATA GRID Dhaka, Bangladesh.

- Worked mostly backend in 'Complaint' Web API of 'Ranger System', for offline data synchronization from PDA to Cloud, an UK manufacturing company's ERP system. Implement optimized BI for Web API in MVC4, and MVC6 was used for Tablet version with Angular JS-1 in frontend. Database support was with SQL Server 2012
- Worked on core framework development of 'dizicashier' , an accounting android app, developed with java with android API. Also, worked for a short time on its Database Management in SQL server.

Selected Projects, Apart from Academia

NLP: Sentiment Analysis Real Disaster or Not? Attended Kaggle competition, based on Tweets of different person, the target was to find whether is there any disaster is going to happen or not. LSTM based sequence to sequence model was designed with Embedding Layer for text vectorization. Developed with PyTorch with NLTK. *[*2020*, git, medium]*

Generate Your own Data using GANS: Class Imbalance Problem, generate synthetic timeseries based power data with modified and advanced stacked genitive Advisory network (MH-GAN's), which is able to overcome mode collapse, for stabilizing the power and fixing load balancing over power grid. Developed with Keras background supported by TF with BHO [2019]

Segmentation and Classification of Satellite Image for Ice: Water and Ice segmentation and classification of north polar images, was captured from satellite having compared with the ground truth, done with Pytorch CNN2D. [2019]

Housing Prices Prediction- Advanced Regression Techniques: Based on different factors of a various houses how much price could be asked for house, done with FFNN and Random Forest. Accomplished towards participating Kaggle Competition. *[* 2019*, git]*

Skills and Organization

Languages/Tech: Proficient in Deep Learning with PyTorch, Python. Have competitive industry experience in, C# and .Net Framework, Java, JS, WEB API, Google Map API, Git, and Linux.

Organizations: Software Engineering Lab (Western University), Competitive Problem Solver (Kattis, UVA, StackOverflow, LeetCode, Medium)

Teaching: Teaching Assistance experience in Data Structures and Algorithms, Operating Systems, Microprocessors, and Software Construction course. Acted as a mentor for problem solving competitions during teaching Data Structures.

Education

MESc. in Software Engineering, Specialized on ML and AI | Canada
Electrical and Computer Engineering Department, Western University, London, ON, Canada (May 2018 - April 2020)

BSc. in Computer Science and Engineering | Bangladesh
Computer Science Department, Khulna University, Khulna, Bangladesh (June 2011 - December 2015)

Highlighted Courses: Data Structures, Algorithms, Software Engineering, Artificial Intelligence, Data Analytics, Data Science, Machine Learning, Deep Learning (Online), Discrete Mathematics, Computer Graphics, Database Systems.

References

Katarin Grolinger, Assistant professor, Western University, TEB275, London, ON, kgroling@wuo.ca
Md. Matiur Rahman, CTO, Data Grid Limited, Dhaka, Bangladesh, matin@datagridbd.com
Mohammad Navid Fekri, PhD, Software Engineering Lab, Western University, mfekri@uwo.ca