S M Rafiuddin Rifat

House no. 167/3/E, Sher E Bangla Nagar
Dhaka - 1207, Bangladesh
Cell: (+880) 1737775379
Email: *rifat.cse@uap-bd.edu*

OBJECTIVE

To obtain a career in Research and Development in Computer Science arena.

EDUCATION

Master of Science in Computer Science and Engineering Continuing
Department of Computer Science and Engineering (CSE)
Bangladesh University of Engineering and Technology (BUET), Dhaka.
Theory Courses Taken:

- Bioinformatics Algorithms
- Computational Biology
- Advanced Algorithms
- Meta-Heuristics
- Graph Theory
- Advanced Artificial Intelligence

Ongoing Thesis: Isolated Bangla Handwritten Complex Character Generation and Augmented Classification using Deep Convoluted Generative Adversarial Network. Under the supervision of Dr. Muhammad Abdullah Adnan.

Bachelor of Science in Computer Science and Engineering 2016
Department of Computer Science and Engineering (CSE)
Rajshahi University of Engineering and Technology (RUET), Rajshahi.

RESEARCH AREA

- Machine Learning
- Deep Learning
- Computer Vision
- Pattern Recognition

RESEARCH INTEREST

- Generative Adversarial Network
- Virtual and Augmented Reality

PUBLICATIONS (Most Recent First)

Razin, Md Jahidul Islam, Md Abdul Karim, M. F. Mridha, **S M Rafiuddin Rifat**, and Tahira Alam. "A Long Short-Term Memory (LSTM) Model for Business Sentiment Analysis Based on Recurrent Neural Network." *In Sustainable Communication Networks and Application, pp. 1-15."* Springer, Singapore, 2021.

Rafiuddin, S. M.. "Estimation of Phylogenetic Tree using Gene Sequencing Data." *Electrical Information and Communication Technology (EICT), 2019 4th International Conference on.* IEEE, 2019.

Rafiuddin, S. M.. "Ranking of Bangla word graph using graph based ranking algorithms." *Electrical Information and Communication Technology (EICT), 2017 3rd International Conference on.* IEEE, 2017.

Mishu, Sadia Zaman, and **S. M. Rafiuddin**. "Performance analysis of supervised machine learning algorithms for text classification." *Computer and Information Technology (ICCIT), 2016 19th International Conference on.* IEEE, 2016.

TECHNOLOGY SKILLS

Programming Languages: C, C++, Java, Python.
Simulator: Matlab, Octave, Multisim, CISCO Packet Tracer, Unity Game Engine.
Operating System: Linux.
Web Technologies: HTML, CSS, JavaScript, PHP.
Database Technologies: Oracle, MySQL, PL/SQL.
Technical Writing: LaTeX
Library: OpenGL, NumPy, pandas, MatPlotLib, NLTK, Scikit-learn, Tensorflow.

EXPERIENCE

Lecturer October 2018 - Present
Department of Computer Science and Engineering (CSE)
University of Asia Pacific - UAP
74/A Green Road, Farmgate, Dhaka 1215.
Website: *www.uap-bd.edu*

- Take theory and sessional classes of undergraduate Computer Science discipline.
- Make questions, evaluate answer scripts and prepare results.
- Supervision of undergraduate Computer Science projects.
- Coach of a Competitive Programming team at RUET IUPC - 2019.

Lecturer February 2017 - October 2018
Department of Computer Science and Engineering (CSE)
Uttara University, Dhaka - 1230.
Website: *www.uttarauniversity.edu.bd*

- Take theory and sessional classes of undergraduate CS discipline.
- Make questions, evaluate answer scripts and prepare results.
- Advising students, give guidelines, motivation and instructions in computer programming club and ACM ICPC and NCPC contests.

COURSES TAUGHT AS LECTURER

- Machine Learning (Spring 2020 UAP, Fall 2020 UAP)
- Computer Graphics Lab (Fall 2018, Spring 2019, Fall 2019, Spring 2020 UAP, Fall 2020 UAP)
- Pattern Recognition Theory and Lab (Fall 2018, Spring 2019, Fall 2019 UAP)
- Design and Analysis of Algorithms (Fall 2018 UU, Fall 2020 UAP)
- Operating System Design (Summer 2018 UU)
- Discrete Mathematics (Fall 2017 UU)
- Programming Language and Application II (C++) (Fall 2017 UU)
- Compiler Design Lab (Fall 2020 UAP)
- Algorithms Lab (Fall 2019 UAP)

MOOC COURSE CERTIFICATES

ACADEMIC COURSES

Machine Learning
Stanford Univerity, USA, course provided by Coursera

Algorithms: Design and Analysis, Part 1
Stanford Univerity, USA, course provided by Coursera

Understanding Research Methods
University of London, course provided by Coursera

Introduction to Mathematical Thinking
Stanford University, course provided by Coursera

Neural Networks and Deep Learning
deeplearning.ai

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
deeplearning.ai

Structuring Machine Learning Projects
deeplearning.ai

NON-ACADEMIC COURSES

Cameras, Exposure, and Photography
Michigan State University, USA, course provided by Coursera

Camera Control
Michigan State University, USA, course provided by Coursera

Principles of Photo Composition and Digital Image Post-Production
Michigan State University, USA, course provided by Coursera

ONLINE ACCOUNTS

- LinkedIn
- GitHub
- Google Scholar

COMMUNITY SERVICE

National High School Programming Contest (NHSPC), Rajshahi.
Volunteer 2016

Divisional Mathematical Olympiad, Faridpur.
Math Olympiad Volunteer (MOVer) 2006

TRAINING EXPERIENCE

The role and responsibility and ethical principle of the university teachers.
Conducted by the Institutional Quality Assurance Cell (IQAC), Uttara University, Bangladesh February 24, 2018

Improving Learning and Teaching Skills (ILTS)
Conducted by University of Asia Pacific May 5, 2019

AWARDS

Honorable Mention in ICT Fest, IUT, Gazipur
Islamic University of Technology, Gazipur 2014

Honorable Mention in National Collegiate Programming Contest (NCPC), DIU
Daffodil International University (DIU) 2014

Champion in ICT Olympiad, CSE Fest, RUET
Career Club, Rajshahi University of Engineering and Technology (RUET) 2012

REFERENCES

Dr. Muhammad Abdullah Adnan
Email: *adnan@cse.buet.ac.bd*
Associate Professor
Department of Computer Science and Engineering (CSE)
Bangladesh University of Engineering and Technology (BUET)

Biprodip Pal
Email: *biprodip@cse.ruet.ac.bd*
Assistant Professor
Department of Computer Science and Engineering (CSE)
Rajshahi University of Engineering and Technology (RUET)