

## S M Rafiuddin Rifat

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|---------------------------------|--|---------|
| <b>OBJECTIVE</b>                | To obtain a career in Research and Development in Computer Science arena.  |         |
| <b>EDUCATION</b>                | <b>Master of Science in Computer Science and Engineering</b><br>Department of Computer Science and Engineering (CSE)<br>Bangladesh University of Engineering and Technology (BUET), Dhaka.   | Ongoing |
|                                 | <i>Theory Courses Taken:</i> <ul style="list-style-type: none"><li>• <a href="#">Bioinformatics Algorithms</a></li><li>• <a href="#">Computational Biology</a></li><li>• <a href="#">Advanced Algorithms</a></li><li>• <a href="#">Meta-Heuristics</a></li><li>• <a href="#">Graph Theory</a></li><li>• <a href="#">Advanced Artificial Intelligence</a></li></ul> <p><i>Ongoing Thesis:</i> Semi-supervised Image Generation and Augmented Classification using Deep Convoluted Generative Adversarial Networks.</p> <p>Under the supervision of <a href="#">Dr. Muhammad Abdullah Adnan</a>.</p> |         |
|                                 | <b>Bachelor of Science in Computer Science and Engineering</b><br>Department of Computer Science and Engineering (CSE)<br>Rajshahi University of Engineering and Technology (RUET), Rajshahi.  | 2016    |
| <b>STANDARDIZED TEST SCORES</b> | <ul style="list-style-type: none"><li>• GRE General Test (Verbal Section - 152 , Quant Section - 160 , AWA - 3.5)</li><li>• TOEFL iBT (Reading - , Speaking - , Listening - , Writing - , Total - )</li></ul>  |         |
| <b>RESEARCH AREA</b>            | <ul style="list-style-type: none"><li>• Machine Learning</li><li>• Deep Learning</li><li>• Computer Vision</li><li>• Pattern Recognition</li></ul>   |         |
| <b>RESEARCH INTEREST</b>        | <ul style="list-style-type: none"><li>• Generative Adversarial Network</li><li>• Graph Neural Network</li><li>• Geometric Deep Learning</li><li>• Data Visualization</li></ul>   |         |

**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.

**Operating System:** Linux.

**Version Control and Development:** Git.

**Web Technologies:** HTML, CSS, JavaScript, PHP, Django.

**Cloud Technologies:** Amazon AWS.

**Database Technologies:** Oracle, MySQL, PL/SQL.

**Technical Writing:**  $\text{\LaTeX}$

**Editing and Design:** Adobe Photoshop, Adobe Illustrator.

**Library/Framework:** OpenGL, NumPy, pandas, Matplotlib, NLTK, Scikit-learn, Tensorflow 2.0, PyTorch, Seaborn, LibVips.

**Simulator:** Matlab, Octave, Multisim, CISCO Packet Tracer, Unity, Blender.

**EXPERIENCE**

**Lecturer** October 2018 - Present  
Department of Computer Science and Engineering (CSE)  
**University of Asia Pacific - UAP**  
74/A Green Road, Farmgate, Dhaka 1215.  
(Proposed Host of International Collegiate Programming Contest World Finals, 2022)

- Take theory and lab classes of undergraduate Computer Science program.
- Make questions, evaluate answer scripts and prepare results.
- Supervision of undergraduate Computer Science projects.
- Coach of a Competitive Programming team at RUET IUPC - 2019.
- Active participation in Institutional Quality Assurance Cell (IQAC) workshops and Outcome Based Education (OBE).

**Lecturer** February 2017 - October 2018  
Department of Computer Science and Engineering (CSE)  
**Uttara University**

- 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**

**Theory Courses:**

- Machine Learning (Spring 2020 UAP, Fall 2020 UAP)
- Pattern Recognition (Fall 2018 UAP, Spring 2019 UAP, 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)
- Mathematics for Computer Science (Spring 2021 UAP)
- Visual and Web Programming (Fall 2021 UAP)

**Lab Courses:**

- Computer Graphics Lab (Fall 2018 UAP, Spring 2019 UAP, Fall 2019 UAP, Spring 2020 UAP, Fall 2020 UAP, Spring 2021 UAP, Fall 2021 UAP)
- Pattern Recognition Lab (Fall 2018 UAP, Spring 2019 UAP, Fall 2019 UAP, Spring 2021 UAP)
- Compiler Design Lab (Fall 2020 UAP)
- Algorithms Lab (Fall 2019 UAP)
- Object Oriented Programming - II (Java) Lab (Spring 2021 UAP)
- Visual and Web Programming Lab (Fall 2021 UAP)

**MOOC  
COURSE  
CERTIFICATES**

**ACADEMIC COURSES**

**[Machine Learning](#)**

Stanford University, USA, course provided by Coursera

**[Algorithms: Design and Analysis, Part 1](#)**

Stanford University, 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 PROFILES

- [LinkedIn](#)
- [GitHub](#)
- [Twitter](#)

## RESEARCH PROFILES

[[Google Scholar](#)] [[Semantic Scholar](#)] [[ORCID](#)] [[Scopus](#)]

## VOLUNTARY SERVICES

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](mailto: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](mailto:biprodip@cse.ruet.ac.bd)

Assistant Professor

Department of Computer Science and Engineering (CSE)

Rajshahi University of Engineering and Technology (RUET)