S M Rafiuddin

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

EDUCATION

Ph.D. in Computer Science   August 2022 - Present
Department of Computer Science
Oklahoma State University

- Machine Learning
- Data Structures and Algorithms II

B.Sc. in Computer Science and Engineering   January 2012 - October 2016
Department of Computer Science and Engineering
Rajshahi University of Engineering and Technology
CGPA: 3.53 out of 4.00

RESEARCH AREA

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

PUBLICATIONS (Most Recent First)

- **Rafiuddin, S. M. Rafiuddin, S. M.** (2022, March). High Cursive Complex Character Recognition using GAN External Classifier. *In Proceedings of the 2nd International Conference on Computing Advancements* (pp. 466-472).

- Karim, M. A., **Rafiuddin, S. M.**, Islam Razin, M. J., & Alam, T. (2022, March). Isolated Bangla Handwritten Character Classification using Transfer Learning. *In Proceedings of the 2nd International Conference on Computing Advancements* (pp. 11-17).

- Razin, J. I., Abdul Karim, M., Mridha, M. F., **Rafiuddin Rifat, S. M.**, & Alam, T. (2021). 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.

- **Rafiuddin, S. M.** (2019, December). Estimation of Phylogenetic Tree using Gene Sequencing Data. *In 2019 4th International Conference on Electrical Information and Communication Technology (EICT)* (pp. 1-5). IEEE.

- **Rafiuddin, S. M.** (2017, December). Ranking of Bangla word graph using graph based ranking algorithms. *In 2017 3rd International Conference on Electrical Information and Communication Technology (EICT)* (pp. 1-5). IEEE.

- Mishu, S. Z., & **Rafiuddin, S. M.** (2016, December). Performance analysis of supervised machine learning algorithms for text classification. *In 2016 19th International Conference on Computer and Information Technology (ICCIT)* (pp. 409-413). IEEE.

STANDARDIZED TEST SCORES	• GRE General Test (Verbal Section - 152 , Quant Section - 160 , AWA - 3.5)
	• TOEFL iBT Test (Reading - 23, Listening - 26, Speaking - 21, Writing - 26)

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: 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

Graduate Teaching Assistant   August 2022 - Present
Department of Computer Science
Oklahoma State University

• Introduction to Computer Security (Fall 2022)

Lecturer   October 2018 - July 2022
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 in the 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 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 PROFILES	• [LinkedIn](#) • [GitHub](#) • [Twitter](#)
RESEARCH PROFILES	[**Google Scholar**] [**dblp**] [**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
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Associate Professor
Department of Computer Science and Engineering (CSE)
Bangladesh University of Engineering and Technology (BUET)

Biprodip Pal
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Assistant Professor
Department of Computer Science and Engineering (CSE)
Rajshahi University of Engineering and Technology (RUET)