

# S M RAFIUDDIN

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 [LinkedIn](#)  [GitHub](#)  [Scholar](#)  [Portfolio](#)

## OBJECTIVE

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Aiming to build a career in Research and Development with a focus on Machine Learning and solving complex challenges that bridge theoretical foundations with practical applications.

## RESEARCH INTEREST

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Machine Learning, Deep Learning, Natural Language Processing, Pattern Recognition

## EDUCATION

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<b>Doctor of Philosophy (Ph.D.)</b>   <i>Computer Science</i> Oklahoma State University	August 2022 – July 2027
<b>Bachelor of Science (B.Sc.)</b>   <i>Computer Science and Engineering</i> Rajshahi University of Engineering and Technology	January 2012 – October 2016 CGPA: 3.53/4.00

## TECHNICAL SKILLS

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**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, Docker.

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

**Technical Writing:** L<sup>A</sup>T<sub>E</sub>X.

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

**Library/Framework:** NumPy, pandas, Matplotlib, NLTK, ScikitLearn, Tensorflow, PyTorch, Seaborn.

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

## WORK EXPERIENCE

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<b>Graduate Teaching Assistant</b> Oklahoma State University	August 2022 – Present Stillwater, Oklahoma, USA
<ul style="list-style-type: none"><li>• <i>Introduction to Computer Security (Fall 2022)</i>: Facilitated learning for 50+ students through interactive discussions, enhancing their understanding of key security principles and practices.</li><li>• <i>Design and Implementation of Operating Systems I (Spring 2023, Spring 2024)</i>: Led weekly sessions and provided one-on-one mentoring to students, significantly improving their practical skills in OS development.</li><li>• <i>Data Structures and Algorithm Analysis II (Fall 2023)</i>: Designed and graded complex assignments and exams to assess and reinforce students' problem-solving skills in advanced algorithms.</li></ul>	
<b>Lecturer</b> University of Asia Pacific	October 2018 – July 2022 Dhaka, Bangladesh
<ul style="list-style-type: none"><li>• Conducted Computer Science classes and labs, focusing on interactive and applied learning techniques, which enhanced students' understanding and retention of complex concepts.</li><li>• Led the <i>RUET IUPC 2019</i> Competitive Programming team, providing intensive coaching and problem-solving strategies that improved the team's performance and ranking in national competitions.</li><li>• Actively participated in <i>IQAC workshops</i>, contributing to the development and implementation of <i>Outcome Based Education (OBE)</i> strategies that aligned with international academic standards and improved the curriculum's effectiveness.</li></ul>	

## PROJECTS

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### Deep Learning and GANs for Image Generation, Embedding, and Classification

November 2021

PyTorch

- Utilized GANs and embedding techniques for realistic image generation and clustering, enhancing content diversity, classification accuracy, and scalable visualization with OpenSeadragon.

### Text-based Question Answering System

October 2016

Python, Scikit-Learn

- Developed an advanced text processing system with parsing, POS tagging, and semantic analysis, improving text categorization, tagging, and precise information extraction across research and customer service sectors.

## PUBLICATIONS

(MOST RECENT FIRST)

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- Rafiuddin, S. M.**, Rakib, M., Kamal, S., & Bagavathi, A. (2024, February). [Exploiting Adaptive Contextual Masking for Aspect-Based Sentiment Analysis](#). In *Pacific-Asia Conference on Knowledge Discovery and Data Mining* (pp. 147-159). Singapore: Springer Nature Singapore.
- 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.

## VOLUNTARY SERVICES

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- Volunteered at the *National High School Programming Contest (NHSPC)*, Rajshahi, contributing to the organization and smooth execution of the event, fostering interest in programming among high school students.
- Volunteered at the *Divisional Mathematical Olympiad* in Faridpur, assisting in event coordination and promoting math education.
- Reviewed research papers for [IJCNN 2024](#), providing critical feedback to advance the field of neural networks and computational intelligence.

## AWARDS

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- [Graduate and Professional Student Government Association](#) - Individual Student Funds Travel Award and Research Materials Grant of amount USD 600.

## REFERENCE

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### [Dr. Arunkumar Bagavathi](#)

Assistant Professor

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Oklahoma State University

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