

S M RAFIUDDIN

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Education

Oklahoma State University

Ph.D. in Computer Science

August 2022 – Present

Stillwater, Oklahoma

Rajshahi University of Engineering and Technology

Bachelor of Science in Computer Science and Engineering

January 2012 – October 2016

Rajshahi, Bangladesh

Research Interest

- Machine Learning
- Deep Learning
- NLPProc
- Pattern Recognition

Experience

Graduate Teaching Assistant

Oklahoma State University

August 2022 – Present

Stillwater, Oklahoma

- Introduction to Computer Security (Fall 2022)
- Design and Implementation of Operating Systems I (Spring 2023)
- Data Structures and Algorithm Analysis II (Fall 2023)

University of Asia Pacific

Lecturer

October 2018 – July 2022

Dhaka, Bangladesh

- Conducted Computer Science classes and labs, along with question setting, script evaluation, and result preparation.
- Supervised student projects and coaching the RUET IUPC 2019 Competitive Programming team.
- Participated in IQAC workshops and implementing Outcome Based Education (OBE) strategies.

Projects

Deep Learning and GANs for Image Generation, Embedding, and Classification | *PyTorch* November 2021

- Utilized Generative Adversarial Networks (GANs) to create high-quality, realistic images, exploring the capabilities of GANs in generating diverse visual content from given data sets.
- Applied a wide range of deep learning models to accurately classify images, enhancing the system's ability to recognize and categorize various image types and features effectively.
- Implementing image embedding techniques to group similar images into clusters, using OpenSeadragon for efficient and scalable visualization of these clustered images, enabling easier analysis and retrieval.

Input Text-based Question Answering. | *Python, Scikit-Learn*

October 2016

- Created a system that leverages Parsing, Parts of Speech Tagging, Syntactic, and Semantic Analysis for comprehensive text processing and understanding.
- Implemented functionality for input text analysis, including word categorization, tagging, classification, and information extraction, with the capability to answer pattern-based questions about the text's characteristics and meaning.
- Focused on enhancing electronic text manipulation and understanding across various fields like academic research and customer service, highlighted by its unique feature of sentence-matching for precise answer derivation.

Technical Skills

Languages: C++, Java, Python

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

Operating System: Linux

Version Control and Development: Git

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

Technologies/Frameworks: PyTorch, PySpark, OpenGL, Scikit-learn, NLTK, Matplotlib

Voluntary Services

- Volunteered at National High School Programming Contest (NHSPC), Rajshahi.
- Volunteered at Divisional Mathematical Olympiad, Faridpur