

Rakibul Islam

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Professional Summary

Enthusiastic, highly motivated, who like to take initiative and seek out new challenges. My research focuses on the intersection of Machine Learning, Deep Learning, and Human-Computer Interaction (HCI). I want to design intelligent and adaptive systems that enhance how humans interact with technology by leveraging data-driven and neural network-based approaches.

Research Areas: Machine Learning, Applied Machine Learning, Deep Learning, Human-computer interaction

Education

University of Asia Pacific, Bangladesh *Oct 2018–June 2023*
B.Sc. in Computer Science and Engineering

Thesis Topic: Deep Learning-Based Background Noise Classification and Reduction for Audio Enhancement.

Relevant Coursework: Structured Programming, Data Structure and Algorithms, Object Oriented Programming, Database, Software Engineering, Machine Learning, Artificial Intelligence, Probability & Statistics, Data Communications, Linear Algebra, Multivariable Calculus, etc.

Thesis

Deep Learning-Based Background Noise Classification and Reduction for Audio Enhancement.

Explanation: I worked on improving the clarity of the audio by reducing background noise. I used an LSTM-based RNN model to detect and reduce background noise in audio. This helped improve the overall clarity and quality of speech..

Professional Experience

Instructor *Oct 2023–Present*

Caretutors Technologies Ltd., Bangladesh

Delivered personalized and group-based instruction in Physics, Mathematics, and programming languages (Python, C, C++, JavaScript for Web Development) to high school and college-level students.

Industrial Trainee *Feb 2022–May 2023*

Software Engr. Intern at BrogrammersLab

Strengthened problem-solving skills by approaching challenges calmly, focusing on effective solutions, and managing tasks efficiently under deadlines. Improved team collaboration and communication abilities, while developing strong time management skills in a professional software

development environment.

Bdian Youth Research Trainee Program

Sep 2022–Dec 2022

Researcher at Youth society For Research and Action

Gained hands-on experience in research methodology, including proposing research topics, designing studies, and selecting appropriate methodologies for real-world applications. Developed strong analytical and critical thinking skills through independent research, collaboration with peers, and professional presentations.

Projects

Object Detection with YOLO

Computer Vision — Deep Learning — Python, PyTorch, OpenCV

Developed as a course project. Built a real-time object detection system using the YOLO architecture to identify and classify multiple objects from images.

Voice Activity Detection (VAD)

Audio Processing — Deep Learning — Python, PyTorch, Librosa

Developed as a course project. Built a Voice Activity Detection system to identify speech segments in audio recordings.

Open-Source Personal Website Template for Scholars

Role: Developer — Technologies: HTML, CSS, JavaScript, GitHub

Designed and developed a responsive, modern, and customizable personal website template for professors to showcase research, publications, and teaching. Implemented user-friendly sections, including homepage, about, research, publications, portfolio, blog, and contact.

Hotel Reservation System Website

Role: Web Developer — Technologies: Django, Python, HTML, CSS, JavaScript, SQLite

Developed as a course project. Built a fully functional hotel reservation system using Django. Implemented user authentication, room booking, availability management, and an admin dashboard.

Technical Skills

Machine Learning and Deep learning algorithms

Programming Languages: Python, JavaScript, SQL, C/C++

Packages: PyTorch, OpenCV, Pandas, Matplotlib, Keras, Sci-kit learn, TensorFlow

Web Technologies: HTML, CSS, Bootstrap, JavaScript, Json

Tools: Microsoft Word, Excel, PowerPoint, Latex, Overleaf, Power BI, Git

Project Management: Communication Skills (Written & Verbal), Quantitative Skills, Initiative, Interpersonal Skills, Teamwork, Time Management, etc.

Languages: English (Native) IELTS: 6.5 (L:7, W:6, R:6, S:6), Bengali (Fluent)

Certifications

2024 - Mathematics for Machine Learning and Data Science by Luis Serrano — DeepLearning.AI
Linear Algebra for Machine Learning and Data Science , Calculus for Machine Learning and Data Science , Probability & Statistics for Machine Learning and Data Science

2024 - Machine Learning Specialization by Andrew NG — DeepLearning.AI & Stanford University

Supervised Machine Learning: Regression and Classification , Advanced Learning Algorithms , Unsupervised Learning, Recommenders, Reinforcement Learning

2024 - Learn SQL Basics for Data Science Specialization — University of California, Davis
SQL for Data Science by Sadie St. Lawrence

2024 - IBM Data Analyst Professional Certificate — IBM

Data Visualization with Python by Saishruthi Swaminathan and Dr. Pooja

2024 - Data Science Foundations Specialization — IBM

What is Data Science by Alex Aklson

2024 - Google Data Analytics Professional Certificate — Google

Foundations: Data, Data, Everywhere

2022 - Bdian Research Trainee Certificate

References

Tanjina Helaly (Advisor)

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