Rakibul Islam

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. My goal is to create responsive, efficient, and user-centric interfaces that bridge the gap between human needs and computational design.

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.

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. Gained proficiency in qualitative and quantitative data analysis, academic writing, conducting literature reviews, and systematically interpreting research findings.

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)

Thesis And Publications

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

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 — Deep Learning.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

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