

# Rakibul Islam

✉ [raakibul.uap@gmail.com](mailto:raakibul.uap@gmail.com) ☎ +880-1315396692 [in linkedin.com/in/raakibul](https://www.linkedin.com/in/raakibul) [github](https://github.com/raakibul) [raakibul.github.io/](https://raakibul.github.io/)

## Professional Summary

---

My research focuses on the intersection of Machine Learning, Deep Learning, and Human-Computer Interaction (HCI). I 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 — 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)**

Email: [tanjina@uap-bd.edu](mailto:tanjina@uap-bd.edu)

Assistant Professor, Department of Computer Science & Engineering, University of Asia Pacific

**Dr. Alope Kumar Saha**

Email: [aloke@uap-bd.edu](mailto:aloke@uap-bd.edu)

Professor, Department of Computer Science & Engineering, University of Asia Pacific

**Md Shopon**

Email: [md.shopon@ucalgary.ca](mailto:md.shopon@ucalgary.ca)

Lecturer, Department of Computer Science & Engineering, University of Asia Pacific