

# Khondokar Radwanur Rahman

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## About Me

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Passionate AI researcher with experience in Computer Vision, NLP, Transformers, and Multimodality. Proven problem-solving skills through Kaggle competitions and competitive programming. Research Assistant at Qatar University, contributing to cutting-edge AI projects. Strong interest in developing intelligent systems that understand and interact with humans.

## Education

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### Rajshahi University of Engineering and Technology

March 2022 – April 2026

- Bachelor of Science (B.Sc.) in Electrical and Computer Engineering (ECE).
- CGPA: 3.23/4.00
- **Coursework:** Computer Architecture, Data Structure and Algorithms, Database, Operating System, Microprocessor and Assembly Language.

### Dhaka City College, Group: Science

2017 – 2019

- GPA: 5.00/5.00

## Experience

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### Research Assistant, Qatar University – Doha, Qatar

February 2025 – Present

- Writing book chapters on Machine Learning, and building Machine Learning systems.
- Working on the fields of: Computer Vision, Natural Language Processing, Multimodality, and Environmental Science.
- Focusing on publishing Q1 Journals.

### Software Engineer, Tech Autocrats – Dhaka, Bangladesh

May 2025 – Present

- Developing an object detection system for the Autonomous Underwater Vehicle (AUV) competing in the Robo-Sub'25 competition, to be held in Irvine, California, USA.
- Developing the Image Processing pipeline and path planning to efficiently detect the objects under water.
- Implementing bidirectional communication between the Jetson Orin Nano and Pixhawk using the MAVLink protocol to enable autonomous decision-making and control.

### AI Trainer, OutlierAI – Remote, USA

Nov 2024 – Jan 2025

- Trained the AI Models on Mathematical Problems.
- Projects worked on: Green Wizards, Kepler RLHF.

## Publications

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**ReliefNet: A Novel and Reliable AI-Based Multimodal Framework for Real-Time Disaster Severity Classification in Humanitarian Operations.** [Pending Approval]

**AIBlockNet - Novel Framework for Authenticity Validation using Blockchain and Machine Learning for Fake Image Detection.** [Under Review]

## Projects

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### AgroVision | Smart Diagnosis for Plant Diseases

[GitHub Repo](#)

Designed and implemented a complete MLOps pipeline for plant disease classification using TensorFlow. Integrated DagsHub, MLflow, and DVC for experiment tracking and pipeline versioning. Developed a CI/CD pipeline with AWS and GitHub Actions for seamless deployment. Built a Flask-based web app with HTML/CSS for real-time predictions. Followed modular coding and OOP principles to ensure scalability and maintainability. Leveraged Docker for containerization and cloud deployment for production readiness.

## Technologies

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**Languages:** Python, C/C+.

**Machine Learning Frameworks:** TensorFlow, PyTorch, Scikit-Learn.

**Backend:** FastAPI, Python Flask, Django.

**Version Control:** Git, GitHub.

## Achievements

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**Smart Rajshahi Innovation Challenge**, Rajshahi, Bangladesh [\[Link\]](#) October 2023

- Our team **Best\_Trio** secured 3rd position for innovative idea and prototype showcasing.

**University Innovation Hub Program (UIHP)**, Rajshahi, Bangladesh [\[Link\]](#) May 2024

- The University Innovation Hub Program (UIHP) helps innovative thinkers and tinkers like you get started on your path to entrepreneurship
- Our team **MosQuitt** secured 2nd position and pre-seed funding for start-up.

**KIBO Robot Programming Challenge**, Rajshahi, Bangladesh [\[Link\]](#) June 2024

- The 5th Kibo Robot Programming Challenge (Kibo-RPC) tasks participants with programming free-flying robots, like Astrobees, aboard the ISS to autonomously navigate, avoid obstacles, identify targets, and perform actions such as activating switches or aligning with objects.
- Our Team n0Brains secured 7th position among 135 teams in Bangladesh in the National Round.