

MOHAMMED RAKIB

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🌐 <https://mohammedrakib.github.io>

🌐 [LinkedIn](#)

🐙 [Github](#)

🎓 [Google Scholar](#)

Education

Doctor of Philosophy in Computer Science

Oklahoma State University - Stillwater, OK, USA

August 2023 – Present

GPA: 3.5

Bachelor of Science in Computer Science and Engineering

North South University - Dhaka, Bangladesh

September 2017 – September 2021

GPA: 3.96

Research Interest

- Computer Vision
- Multimodal Learning
- NLP
- Model Compression Techniques

Technical Skills

Programming Languages: Python, Java, C, C++, Shell Scripting, Arduino, HTML, SQL, x86 Assembly

AI & Data Science: PyTorch, TensorFlow, Keras, OpenCV, Scikit-learn, Hugging Face, Pandas, Matplotlib

Web Development: Django, FastAPI, Flask, Nginx, HTML, CSS, JavaScript

Version Control: Git, Bitbucket

Databases: MySQL, MongoDB, NoSQL, Redis

DevOps & Containerization: Docker, Kubernetes

Cloud Computing: Amazon EC2, AWS Services

Big Data Technologies: Hadoop, Apache Spark

Professional Experience

Data Scientist & Machine Learning Engineer

NeovoTech Ltd.

September 2022 – July 2023

Dhaka, Bangladesh

- Create crawlers to scrape news articles from various websites and store them in an AWS S3 bucket.
- Create, maintain, and deploy text translation and text summarization pipelines.

Machine Learning Intern

NeovoTech Ltd.

June 2022 – August 2022

Dhaka, Bangladesh

- Collaborated with colleagues to prepare a web crawler that crawls Swedish news text.
- Contributed to improving the Neural Machine Translation (NMT) pipeline from Swedish to English text.

Academic Experience

Graduate Research Assistant

Complex Systems Lab, OSU

August 2023 – Present

Stillwater, OK, USA

- Conducting research to refine soil moisture estimation techniques using crop imagery for a USDA-funded project.
- Exploring advancements in soil moisture prediction by adapting existing time-series models and modifying deep learning architectures to improve accuracy.
- Developing a multimodal forecasting approach by merging tabular meteorological data with soil imagery to elevate prediction reliability.

Graduate Teaching Assistant

Computer Science Department, OSU

August 2023 – Present

Stillwater, OK, USA

- Design & Implementation of Operating Systems 1 (Fall 2023)
- Computer Science II - Intro to Object Oriented Programming (Spring 2024)

Research Assistant

Apurba-NSU R&D Lab

September 2021 – September 2022

Dhaka, Bangladesh

- Collaborate with fellow RAs to train, fine-tune, and deploy various deep learning models for image classification, OCR, ASR, sentence similarity, masked language modeling, QA, and NER.
- Conduct research in model compression techniques (pruning, quantization, and knowledge distillation), analyze findings, and present weekly reports.

Voluntary Activities

Assisted in fundraising for SCARS, a non-profit, to support the underprivileged, enhancing community support & donations.

Instructed Pytorch-based Deep Learning workshops, promoting skill development in neural networks.