

Sakib Chowdhury

Graduate Research Fellow & PhD Student in Robotics, Former Machine Learning Research Engineer

Experienced in the intersection of robotics and machine learning.

Experienced in multimodal computer vision and natural language models.

Currently studying robot perception for high speed decision making and controller design.

M: sakibchowdhury131@gmail.com

T: +12014486568

A: 282 3rd St, Jersey City, New Jersey
07302

W: <https://sakibchowdhury131.github.io>

Education

Stevens Institute of Technology

PhD Student (Studying Robotics)

New Jersey, USA

07/2023 – Present

Bangladesh University of Engineering and Technology

Bachelors, Department of EEE

New Jersey, USA

03/2017 – 03/2022

Publications

[Google Scholar](#)

- [SpectroCardioNet: An Attention Based Deep Learning Network Using Triple-Spectrograms of PCG Signal for Cardiac Disease Detection](#)
- [A Simulated Intelligent Pixelated Electrode Array for Surface Electromyography Sensors](#)
- [CovTANet: a hybrid tri-level attention based network for lesion segmentation, diagnosis, and severity prediction of COVID-19 chest CT scans](#)
- [SynthNID: Synthetic Data to Improve End-to-end Bangla Document Key Information Extraction](#)
- [SHONGLAP: A Large Bengali Open-Domain Dialogue Corpus](#)

WORK HISTORY

Graduate Research Fellow

[Stevens Institute of Technology](#)

New Jersey, USA

07/2023 – Present

- Studying robot motion control in complex dynamic scenarios
- Studying policy design for learning table tennis with robotic arm

Research Engineer (Machine Learning)

[Celloscope](#)

Dhaka, Bangladesh

11/2021 – 07/2023

- Designed vision transformer based text extraction systems from Bangla document images
- Designed Bangla speech-to-speech chatbot for banking application, e.g., fund transfer, balance inquiry, FAQ etc.
- Designed voice signature based speaker verification system

Assistant Researcher

[Bangladesh University of Engineering and Technology](#)

Dhaka, Bangladesh

11-2020 – 03-2021

- Developed a system that detects derailment from upto 1200 meters distance by sensing the vibrations generated from the movement of train.

Intern Engineer (Hardware Design)

[Adorsho Praisheba Ltd.](#)

Dhaka, Bangladesh

07-2017 – 11-2020

- Contributed to the development of BOLUS, an AI powered IoT hardware that is swallowed by the cattle in cowsheds. It monitors the health condition of the cow and a farmer can track the health report with a smartphone.