

# SAIFUL ISLAM

☎ (+88) 01616 790 790 ✉ islam.saiful03@outlook.com 📍 Dhaka, Bangladesh  
🌐 sonnetsaif.github.io 🔄 SonnetSaif 📺 saiful-islam03 🎓 Saiful Islam

## WORK EXPERIENCE

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### Software Engineer

April 2023 - Present

*Sincos Automation Technologies Ltd.*

Onsite, Full Time

- Built Manufacturing Control Tower (MCT) Software for **Unilever Bangladesh**
- Responsible for Requirement Analysis and System Architecture Design
- Developing Backend API using NodeJs
- Developing Database Architecture for Applications

### Associate Software Engineer

February 2021 - February 2023

*Spectrum Engineering Consortium Ltd.*

Onsite, Full Time

- Built Multiple complete Software for ‘**National Board of Revenue (NBR)**’ for Modern and Automated Ways of Both Existing and New Systems
- Partially Worked with the **ML** Team to Implement Research Paper and Contribute to the Workflow
- Contributed in **SDLC**, from Requirements Definition to Successful Deployment
- Developed **REST APIs** Using Java Spring Boot and Managed API security
- Worked Closely with Clients to Establish Problem Specifications, System and Database Designs
- Tested, Coded, Reviewed, and Delivered Software with on-time Record and According to Service Level Objectives

## EDUCATION

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### B.Sc. in Computer Science and Engineering

March 2016 - December 2020

*Ahsanullah University of Science and Technology*

*CGPA: 2.964 out of 4*

**Thesis:** Deep Learning Based Video Captioning in Bengali

**Thesis Supervisor:** Faisal Mahmud Shah

## PUBLICATIONS

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### 0.1 Journal Article

- **Islam, Saiful**, Aurpan Dash, Ashek Seum, Amir Hossain Raj, Tonmoy Hossain, and Faisal Muhammad Shah. Exploring video captioning techniques: A comprehensive survey on deep learning methods. *SN Computer Science*, 2(2):1–28, 2021

## 0.2 In Conference Proceedings

- Amir Hossain Raj, Ashek Seum, Aurpan Dash, **Islam, Saiful**, and Faisal Muhammad Shah. Deep learning based video captioning in bengali. In *2021 26th International Conference on Automation and Computing (ICAC)*, pages 1–6. IEEE, 2021
- Md Islam, Monjurul Haque, **Islam, Saiful**, Md Mia, Zesun Ahmed, SMA Rahman, et al. Dcnn-lstm based audio classification combining multiple feature engineering and data augmentation techniques. In *International Conference on Intelligent Computing & Optimization*, pages 227–236. Springer, 2021
- Md Zesun Ahmed Mia, Md Moinul Islam, Monjurul Haque, **Islam, Saiful**, and SMA Mo-haiminur Rahman. Irfd: A feature engineering based ensemble classification for detecting electricity fraud in traditional meters. In *2021 24th International Conference on Computer and Information Technology (ICCIT)*, pages 1–6. IEEE, 2021

## RESEARCH INTERESTS

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Neural Networks, Computer Vision, Natural Language Processing (NLP), Generative Networks

## TECHNICAL SKILLS

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- Programming Language - Python, C/C++, JavaScript, Java
- Machine Learning Frameworks - PyTorch, TensorFlow
- Python Library - Scikit-learn, OpenCV
- Structured Query Language(SQL) - PostgreSQL, MySQL, Hibernate
- Web Frameworks - Angular, Spring Boot, Spring Security
- Others - Git, Docker, JWT, MQTT, Node-RED, Shell scripting
- Operating Systems - Windows, Linux Distros
- Writing Tools - Proficient in Microsoft Office and LaTeX (Overleaf)

## ACADEMIC PROJECTS

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- Salary Prediction WebApp using Machine Learning  
A Machine Learning web application in Python with Streamlit using stack overflow Survey Data  
*Tools : scikit-learn, Streamlit*
- SMS Spam Classification  
A Machine Learning application cleans, preprocess text and trains model using scikit-learn to classify spam  
*Tools : scikit-learn, nltk*

- Credit Card Fraud Detection using Machine Learning  
A Machine Learning web application in Python with Streamlit using Kaggle dataset  
*Tools: scikit-learn, Tensorflow, Streamlit*
- Handwritten Digit Classification using Machine Learning  
A Machine Learning web application in Python with Streamlit using kaggle dataset  
*Tools : Tensorflow, Streamlit*

## PARTICIPATION AND WORKSHOP

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- Participation at Robi Datathon 2.0 (2022)
- Participation in Hackathon at FormulaAI Hack 2022
- Participation in Idea Contest at DU FABFEST-2018
- Participation in Hackathon at BUP ICT FEST-2018
- Participation in Project Showcase (Software) at CODEWARE-2018, AUST
- Completion of 5-session Long Workshop on Soft Skills at BUET ROSTRUM Season 3
- Participation in Programming Contest at Intra AUST Programming Contest Fall 2017

## EXTRA-CURRICULAR ACTIVITIES

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- Volunteer, Mozilla
  - Contributor at Pontoon
  - Contributor at Common Voice
  - Attended Mozilla Localization Dhaka Meetup 2019
- Student Member at IEEE *Jan 2019 - Jun 2020*
- Volunteer at IEEE AUST Student Branch *Jan 2019 - Jun 2020*
- Campus Ambassador at BUET Career Club *Nov 2018 - Jun 2020*
- General Member at AUST Innovation and Design Club *Mar 2018 - December, 2020*

## ONLINE CERTIFICATIONS

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- (Google Cloud) Baseline: Data, ML, AI
- (Google Cloud) Intro to ML: Language Processing
- (Google Cloud) Reinforcement Learning: Qwik Start
- (DeepLearning.AI) Neural Networks and Deep Learning
- (Coursera) Understanding Deepfakes with Keras

- (Coursera) Neural Style Transfer with TensorFlow
- (DeepLearning.AI) Natural Language Processing in TensorFlow
- (Coursera) Deep Learning with PyTorch : Image Segmentation

## REFERENCE

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Md Zahidul Islam  
Assistant Professor  
Dept. of Electrical and Electronics Engineering (EEE)  
University of Dhaka, Bangladesh  
Contact: +8801720191213  
Email: zahidul@du.ac.bd

Faisal Muhammad Shah  
Associate Professor  
Dept. of Computer Science and Engineering (CSE)  
Ahsanullah University of Science and Technology, Dhaka  
Contact: +8801911090363  
Email: faisal.cse@aust.edu