SAIFUL ISLAM

EXPERIENCE

Sincos Automation Technologies Ltd.

Software Engineer (R&D)

March 2023 - Present Dhaka, BD — 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

Spectrum Engineering Consortium Ltd.

Associate Software Engineer

February 2021 - February 2023 *Dhaka, BD — 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

Ahsanullah University of Science and Technology

B.Sc. in Computer Science & Engineering Total Credits Completed: 161.25 out of 161.25

Thesis: Deep Learning Based Video Captioning in Bengali

Thesis Supervisor: Faisal Mahmud Shah

March 2016 - December 2020 CGPA: 2.964 out of 4

PUBLICATIONS

o.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 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 Mohaiminur 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

Neural Networks, Computer Vision, Generative Networks

TECHNICAL STRENGTHS

Programming Language Python, C/C++, JavaScript, Java Machine Learning Frameworks PyTorch, Keras, TensorFlow **Python Library** Scikit-learn, OpenCV

MySQL, PostgreSQL, Microsoft SQL, Hibernate **Databases**

Web Frameworks Angular, Spring Boot, Spring Security

Protocols & APIs JSON, XML, MQTT, REST **Operating Systems** Windows, Linux Distros

Git, Docker, JWT, Node-RED, Shell scripting, LaTex (Overleaf) Others

ACADEMIC PROJECTS

· Vision Transformer From Scratch Tools: Pytorch

Vision Transformer Paper Implementation with Some Minor Changes

· Detection of Plastics in River Tools: Yolov8

Detecting Various Plastics in River Water using Ultralytics YOLOv8

· U-NET From Scratch Tools: Pytorch

Original U-NET Paper Implementation

Tools: TensorFlow · Stock Prediction Forecasting

Prediction and Forecasting on Microsoft Stock Data using Stacked LSTM

· Vanilla GAN From Scratch Tools: Pytorch

Original GAN Paper Implementation with Some Minor Changes

· Variational Autoencoder (VAE) From Scratch Tools: Pytorch

Original VAE Paper Implementation with Some Minor Changes

Tools: PyTorch Stanford Cars Classification

Classification on Stanford Cars Dataset using Pre-trained models

PARTICIPATION AND WORKSHOP

- · 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

- · Volunteer, Mozilla
 - Contributor at Pontoon
 - Contributor at Common Voice
 - Attended Mozilla Localization Dhaka Meetup 2019
- · Student Member at IEEE

· Volunteer at IEEE AUST Student Branch

Jan 2019 - Jun 2020

Jan 2019 - Jun 2020

· Campus Ambassador at BUET Career Club Nov 2018 - Jun 2020

ONLINE CERTIFICATIONS

- · (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

Md Zahidul Islam Assistant Professor

Dept. of Electrical and Electronics Engineering (EEE)

University of Dhaka, Bangladesh

Contact: +8801720191213 Email: zahidul@du.ac.bd Faisal Mahmud Shah Associate Professor

Dept. of Computer Science and Engineering (CSE) Ahsanullah University of Science and Technology, Dhaka

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