🗆 +880 1915616046 | 💌 zarif98sjs@gmail.com | 🌴 zarif98sjs.github.io | 🖸 zarif98sjs | 🛅 zarif98sjs

### **Education**

### **Bangladesh University of Engineering and Technology (BUET)**

Dhaka, Bangladesh

April 2018 - Present

B.Sc. IN COMPUTER SCIENCE AND ENGINEERING

· Currenly in 3rd Year

• CGPA: 3.87/4

## Skills\_

**Programming Languages** C++, Python, Java, C#, Go

**Frameworks** TensorFlow, Keras, PyTorch, Django, JavaFx

**Database** Oracle

**Tools** Git, Bash, Docker

## Work Experience \_\_\_\_\_

ICT Cell, BUET

Part-time

SOFTWARE DEVELOPER Dec. 2021 - Present

· Creating a custom software to make advance payment for the office of Directorate of Advisory, Extension and Research Services (DAERS)

Unilever Part-time

BIZLEARNER (MACHINE LEARNING), UNILEVER FORECAST ENGINE

Nov. 2021 - Dec. 2021

• Worked with a team that developed a new sales forecasting model for Unilever Bangladesh

# Experience \_\_\_\_\_

Kaggle zarif98sjs ♂

COMPETITION MEDALIST Dec. 2020 - Present

- · Working on real life ML and DL problems, by collaborating with people all over the world
- Silver Medalist, G2Net Gravitational Wave Detection: Worked on finding Gravitational Wave signals from the mergers of Binary Black Holes
- Top 12 %, Shopee Price Match Guarantee: Applied machine learning to build a model that predicts which items are the same products
- Top 12 %, Rock, Paper, Scissors: Used Reinforcement Learning to create an Al for the famous Rock, Paper, Scissors game
- **Top 14** %, *Cassava Leaf Disease Classification*: Classified Cassava Leaf Disease, which helps farmers to quickly identify diseased plants, potentially saving their crops before they inflict irreparable damage

### **Upwork**

Freelance Machine Learning Developer

Sep. 2021 - Present

• Working as a freelance Machine Learning Developer, solving problems for clients

## Research

### **Artificially Intelligent and Interactive MOOCs**

SUPERVISOR: DR. ANINDYA IQBAL(BUET), DR. SHUBHRA KANTI KARMAKER(AUBURN UNIVERSITY)

April 2021 - Present

• We aim to make MOOCs efficient and interactive by making a dynamic real-time Q&A system

DECEMBER 26, 2021 Md. ZARIF UL ALAM · RÉSUMÉ

### Application and Interpretation of Ensemble Methods for Darknet Traffic Classification

SUPERVISOR: MD. TOUFIKUZZAMAN(BUET)

Dec. 2020

• We successfully applied ensemble machine learning methods on the recently published CIC-Darknet2020 dataset to distinguish Darknet traffic apart from the Benign ones (with 98% accuracy) and further identify the type of application running beneath the Darknet traffic (with 97% accuracy)

• Besides, we adopted a game-theoretic approach to show the impact of the features and interpret the output of the machine learning models to better understand the behavior of the Darknet traffic.

## **Projects**

#### MooBot ☑

PYTHON, DISCORD API, GRAPH API

April. 2021

• Created a notification system for Moodle. Moodle doesn't come with built-in notification system. So I created one, synced with a discord bot. This helped my fellow university students to get quick notification from Moodle

### innOcity 🗹

WEB DEVELOPMENT, DATABASE, DJANGO, ORACLE

Dec. 2020

· Created a hotel booking platform using Oracle database and Django framework

### T-Rex On Mars 🖸

Unity Game Engine Aug. 2020

· Recreated the old classic game T-Rex from scratch using Unity

### Route de Dhaka 🗹

OPENSTREETMAP, KEYHOLE MARKUP LANGUAGE, PYTHON

Nov. 2019

 Implemented custom modified Dijkstra algorithm to solve a transportation problem in Dhaka. Datasets contained detailed roads, metro-routes and bus-routes of Dhaka city

### KichuPariNa ChatBot 🗹

MICROSOFT AZURE, OPENCV, PYTHON

Jan. 2019

- Used Face API from Microsoft Azure to detect the mood of the user from the captured photos
- · Used YouTube API to suggest songs based on the mood detected from the aforementioned point

### Durbeen: The Dawn of Programming

JavaFx , Java

· Created a Learning Tool for Programming in my mother language Bangla for Kids

#### Game of Pawns 🗹

OpenGL, iGraphics, C++

Aug. 2018

· Implemented multiplayer, single player and blitz mode using iGraphics Library and a custom mini chess algorithm for the single player mode

## **Honors & Awards**

2021	Silver Medal, G2Net Gravitational Wave Detection	Kaggle
2019	Rated 1900+, CodeChef	CodeChef
2019	Finalist, CodeSamurai	Dhaka University
2019	First Runners Up, Hackathon on Cloud Computing	BUET CSE Festival

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