Tahira Salwa Rabbi Nishat

Nationality: Bangladeshi

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ABOUT ME

An ambitious graduate and a passionate learner with a keen interest in data and modern technology that aspires to operate in a way that links humans and machines for the betterment of the society.

WORK EXPERIENCE

Technical Support Engineer

Torpedo Labs Inc. [01/04/2022 – Current]

City: Delwar

Country: United States

Responsibilities:

- Quality Assurance Testing on various mobile devices and platforms
- Customer support through email and voice calls
- Managing processes for the build, development, and launch of products.
- Product improvement tasks and suggestions.
- Helping release the game to production.
- Coordinating with team members on various tickets, bugs, and issues.

Technical Support Engineer (Intern)

Quest Consultancy [01/07/2021 – 30/12/2021]

- http://www.questconsultancybd.com

City: Dhaka

Country: Bangladesh

Email address: questconsultancybd@gmail.com

Responsibilities:

- Identifying hardware and software solutions
- Troubleshooting technical issues and resolving network issues.
- Speaking to customers to get to the root of their problems quickly

EDUCATION AND TRAINING

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING

Ahsanullah University of Science and Technology [09/11/2016 – 24/08/2021]

Address: 141 & 142, Love Road, Tejgaon Industrial Area, Dhaka, Bangladesh, 1208 Dhaka (Bangladesh)
https://www.aust.edu/

HIGHER SECONDARY SCHOOL CETIFICATE

Ideal School and College [2015]

Address: Arambagh, Motijheel, Dhaka - 1000, 1000 Dhaka (Bangladesh)
https://iscm.edu.bd/

SECONDARY SCHOOL CERTIFICATE

St. Francis Xavier's Girls' High School [2013]

Address: 85, Luxmibazar, Dhaka-1100, Bangladesh, 1100 Dhaka (Bangladesh)
https://sfxgsc.edu.bd/school/

LANGUAGE SKILLS

Mother tongue(s): **Bengali**

Other language(s): **English IELTS - 7.5 (Reading - 8.5, Listening - 8.0, Speaking - 7.0, Writing - 6.5)**

DIGITAL SKILLS

Programming Languages

Programming Languages: C, C++, Python, Matlab / ML python libraries pytorch numpy pandas sklearn scipy / Dee p Learning(YOLO) / Keras, Scikit-learn / OpenCV for image/video processing

Web Technology

HTML CSS PHP

Database

Good knowledge: MySQL and MSSQL

Version Control

Git (Beginner)

Content Editing

Microsoft word, microsoft excel, power point / Canva Editor / LaTeX (basic) / vim, nano

Graphic Design

Adobe Photoshop & Illustrator

Operating System

OS: ubuntu, Windows

Support Software

Atlassian Confluence and Jira / FreshDesk

PUBLICATIONS

Performance Analysis of DTN Routing Protocols

[2021]

This is our thesis topic. In any circumstances where network infrastructure is damaged, DTNs(Delay Tolerant Networks) are used for communication. Here, we checked the performance of 4 DTN Routing protocols - Epidemic, PRoPHET, Spray-and-Wait (Binary version), and MaxProp. We used the ONE simulator for this purpose and simulated them with different parameters and measured their efficiency in different situations.

https://ni7070.github.io/nishat.rabbi/Thesis.pdf

https://github.com/Ni7070/Performance-Analysis-of-DTN-Routing-Protocols.git

Evolutionary Random Forest for Lifelong Learning

[2022]

Ongoing

Traditional Machine Learning does not consider any other related information or previously learned knowledge. In contrast, we humans maintain and accumulate the knowledge learned from previous tasks and use it seamlessly in learning new tasks. Lifelong learning (LL) aims to imitate this human learning process and capability. Here, we are working on Lifelong learning using the Random Forest algorithm. The machine will learn, which will be saved into a knowledge base, then depending on the entropy and other factors, it will be decided using Genetic Algorithm(GA) that how much knowledge is going to be propagated to the next learning. That's how the machine will always have an imprint of what it is learned.

Machine Learning Based Emergency Message Detection

[2022]

Ongoing

In various situations, when a lot of messages are stacked in the memory, It can overload the buffer. Especially, in DTN protocols, where the limited buffer size is a challenging task to maintain. When the buffer gets full, it will stop storing further messages, which can prove disastrous in case of emergency. So, if we can machine learned a program to classify emergency messages, we can give them a greater probability of being delivered. Creating such a program using Natual Language Processing and ML algorithms is the main target of this project.

PROJECTS

Detecting Emergency Message

[10/09/2021 – 10/10/2021]

A machine learning program that can classify emergency and non-emergency messages. The machine was made learned using dataset kaggle dataset "kaggle competitions download -c nlp-getting-started" using Python, PyTorch. There are 2 types of messages - Emergency and Non-emergency. After learning, the machine was able to identify emergency and non-emergency messages with good accuracy.

https://github.com/Ni7070/Detecting-emergency-message

ASL(American Sign Language) Fingerspelling To Alphabet

[05/07/2021 – 15/07/2021]

The machine learning program can recognize hand symbols of 26 different English alphabets and 3 different symbols of daily use and give the corresponding meaning as output.

This project was made using Kaggle dataset "kaggle datasets download -d grassknoted/asl-alphabet" with PyTorch and Python.

https://github.com/Ni7070/ASLFinglespellingToAlphabet.git

NumtaDb Bangla Digit Recognizer

[29/06/2021 – 07/07/2021]

This machine learning program was made using kaggle dataset "kaggle datasets download -d BengaliAI/numta" with Pytorch. It can detect Bangla handwritten digits with good accuracy.

https://github.com/Ni7070/NumtaDbBanglaDigitRecognizer.git

Recommendation-System-using-PHP

[25/08/2021 – 10/09/2021]

A recommendation system, created using PHP as backend and User-Based Collaborative Filtering algorithm. Users can add, and rate products. The main theme was to show users the recommendation of products using the ratings and their likelihood.

https://github.com/Ni7070/Recommendation-System-using-PHP.git

Unit Converter

[11/05/2020 – 29/05/2020]

A Unit converter android app, made with Java in Android studio. It can convert Length, Mass, Volume, Area, Temperature, Data from one unit to another unit of measurement.

https://github.com/Ni7070/UnitConverter_AndroidStudio.git

Eggtastic Catch- game

[19/06/2017 – 07/07/2017]

A fun 2D game where one has to catch the falling eggs from hens one after another. It was made using iGraphics.

https://github.com/Ni7070/EggtasticCatch_iGraphicsGame.git

EXTRA CURRICULAR ACTIVITIES

Participation in Game of Codes'18

[2019]

Participated in Intra AUST Programming Contest and Quiz Contest organized by AUST CSE Society.

Champion in Bappi Premier League Spring 2019

Champion in Intra AUST Programming Contest Organized by AUST CSE SOCIETY in Female category.

RECOMMENDATIONS

Professor & Former Head

Name: Kazi A Kalpoma, Ph.D.
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Department of Computer Science and Engineering,

Director, ICT Center

Ahsanullah University of Science and Technology (AUST)

https://www.aust.edu/cse/faculty_member/prof_dr_kazi_a_kalpoma

Associate Professor
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Division of Computer Science and Software Engineering

Malardalen University, Sweden

School of innovation, design and engineering

http://www.es.mdh.se/staff/149-Mobyen_Uddin_Ahmed

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Dhaka, Bangladesh

https://www.aust.edu/cse/faculty_member/mr_tanvir_ahmed

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