Adiba Shaira

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Education

Bangladesh University of Engineering and Technology (BUET)

Dhaka

Bachelor of Science in Computer Science and Engineering

Feb 2017 - May, 2022

• Thesis: The development of a novel consensus method to summarize a set of gene trees to estimate species tree. A species tree is a branching diagram or a tree showing the evolutionary relationships among various biological species. The study proposes a two third consensus method which promises to keep the false positive rate zero in species tree estimation.

Supervised by Dr. Md. Shamsuzzoha Bayzid, Dr. Rezwana Reaz

• CGPA: 3.68/4.00

Holy Cross College

2014 - 2016

Higher Secondary Certificate

GPA:5.00

Research Experience

Group meetup prediction by clustering and POI prediction

2022-Current

Supervisor: Dr. Tanzima Hashem (BUET)

• We attempt to address the problem of predicting the group meetup POI(point of interest) of a person at a given time where the group members are socially connected to each other.

Breast Ultrasound Image Segmentation

2022-Current

Supervisor: Dr. Mohammad Saifur Rahman (BUET)

- Accurate ultrasound image segmentation using MultiResUNet
- This research work will help ad agencies to provide more personalized ads. Also, Crime investigation agencies will be able to predict criminal activities by utilizing our work

Development of a novel consensus method to estimate species tree

2021 - Current

Supervisors: Dr. Md. Shamsuzzoha Bayzid (BUET) Dr. Rezwana Reaz (BUET)

• A species tree is a branching diagram or a tree showing the evolutionary relationships among various biological species. We are developing a two third consensus method which promise to keep the false positive rate zero in species tree estimation.

Work Experience

Lecturer [Website]

June 2022 – Present

Department of CSE, United International University, Dhaka

• Courses taught: System analysis and Design, Data Structure Lab, Computer Networking Lab

Software Engineer

April 2022 – June 2022

Optimizely, Dhaka

Technical Skills

Languages: Python, Java, C/C++, JavaScript, SQL, PL/SQL, Latex

Database: Oracle, MySQL, MongoDB Frameworks: Django ,Bootstrap

Tools/Software: Git, PyCharm, IntelliJ, CodeBlocks, Visual Studio Code, Oracle SQL Developer, Jupyter

Notebook, Wireshark

Libraries: Pandas, NumPy, Keras, Matplotlib, OpenCV, Scapy, OpenGL;

Corona In Bangladesh | Website 2020 • Web platform created to serve as a information hub about the Covid-19 epidemic in Bangladesh • Recognized by Bangladesh Government as a reliable Covid-19 related news outlet • Library: NodeJS, Database: MongoDB, Healthway-Online Diagnostic and Consultation Center | Information System Design Project 2021 • A website with online diagnostic facilities and hassle free online appointments with doctors from different hospitals • Language : Javacript, Library : NodeJS, Database : MongoDB, Frontend : HTML, CSS Bootstrap A Personal Food Blog | Personal Software Project 2020 • A website where anyone can post recipes, experiences about food and others can comment, like etc. • Language : Javacript, Library : NodeJS, Database : MongoDB, Frontend : HTML, CSS Bootstrap 2021 DHCP Starvation Attack Simulation | Network Security Project • Used python to launch a DHCP starvation attack on the wifi to exhaust the address space available to the DHCP servers for a period of time. • Python, Scapy, SSH, VirtualBox VM, WireShark Logistic Regression and AdaBoost for Classification | Machine Learning Project 2022 • Implemented a logistic regression classifier and used it in the AdaBoost algorithm for classification • Python, Numpy, Pandas, Scikit Learn Hidden markov model with viterbi and Baum Welch Algorithm | Machine Learning Project 2022 • Hidden Markov Model (HMM) implemented with the Viterbi and the Baum-Welch algorithm • Python, Numpy, Pandas, Scikit Learn Online Ride Sharing Service | Database Project 2019 • Developed a database system for easy accessibility of the users who will avail services from the app. • Language: Java Awards and Honors

Ada Lovelace Datathon by BDOC

2021

First Runner Up

• Developed a machine learning model to find the impact of Covid-19 in depression

Ada Lovelace Datathon by BDOC

2022

Second Runner Up

• Developed a machine learning model to predict taxi count to help analyzing traffic data

VOLUNTEERING AND LEADERSHIP EXPERIENCES

Chairperson

February 2021- May 2022

IEEE Computer Society BUET Student Branch Chapter

• In charge of overall organisation and running of the newly formed chapter including promotion and chapter development.

General Secretary

August 2019- February 2021

IEEE Computer Society BUET Student Branch Chapter

• Help to establish the new chapter for the first time in BUET

REFERENCES

Dr. Md. Shamsuzzoha Bayzid, Associate Professor

Department of CSE, BUET Contact: +88 01841234464 shams.bayzid@gmail.com

Dr. Rezwana Reaz, Assistant Professor

Department of CSE, BUET Contact: +88 01713225520 rimpi0505042@gmail.com