



SHOVITO BARUA SOUMMA

PH.D. STUDENT

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EDUCATION

Arizona State University (ASU)

Aug. 2023 - Present

1st year Ph.D student in Biomedical Informatics

Bangladesh University of Engineering & Technology (BUET)

Feb. 2017 - MAY 2022

B.Sc in Computer Science & Engineering

Dhaka, Bangladesh

WORK EXPERIENCE

IQVIA

SEP 2022 – Apr 2023

Software Engineer

Dhaka, Bangladesh

- Refactored some backend codes in .Net, Analyzed, estimated, and implemented new functionalities
- Tested, debugged, diagnosed, and corrected errors using established testing protocols and quality standards.

East Delta University(EDU)

MAY 2022 – SEP 2022

Adjunct Faculty, School of Science, Engineering & Technology

Chittagong, Bangladesh

Part Time Research Assistant(RA)

FEB 2021 – APRIL 2022

e-SRD Lab, CSE, BUET

Dhaka, Bangladesh

RESEARCH INTEREST

mHealth, Deep Learning/ML, HCI

RESEARCH EXPERIENCE

Impact of Social Media on Family Ties (*HCI, Sociology, Human Psychology*)

Aug. 2022

Studied the *impact of social media on Bangladeshi family ties*. I have engaged in ethnographic as well as semi-structured face-to-face interviews and identified a lack of interaction among family members based on the thematic analysis of interview data.

South Asian Public Digital Service Centers and the Risk to User Privacy (*HCI, Privacy*)

2019

Worked as an ethnographer using the thematic method to interview data. The findings showed that customers of these centers were vulnerable to privacy breaches due to a lack of infrastructure, local power politics, a lack of knowledge, and inadequate protection mechanisms.

Android Malware Detection Based on System Calls (*ML, Security, Privacy*)

Apr. 2022

Proposed ML-based robust dynamic method to detect malware apks, that can automatically execute the code routines as well as generate the user behavior of the Android app.

Botnet Detection Using Machine Learning (*ML, Security*)

2020-2021

Proposed several heuristics to select the best features from a handful of possible features on a botnet detection task. The proposal work is much appreciated in the *UNet* conference, which is held in Montreal in 2022.

Warehouse Design for Health Sectors and Outbreak Prediction (*DL, Health Informatics, Data Mining*)

2021-2022

Developed and deployed a privacy-preserving and scalable personalized health decision support system.

SKILLS SUMMARY

Languages: Python, Java, C, C++

Frameworks: .NET(C#), Scikit, TensorFlow, Keras, Git, Django

Others: PostgreSQL, Oracle, MongoDB, Firebase, Google Cloud

AWARDS/ACHIEVEMENTS

- [2022] Got ***Part-time Research Fellowship*** at SPARRSO
- [2022] Got Dean's List Award in 7th and 8th semesters.
- [2021] Placed in top 30 of UGC's Mujib 100 Ideas Contest with a prototype of a national problem solution.
- [2020] Champion, Poster Presentation Competition, University Day 2020, RUET [YouTube [🔗](#)] [Poster [🔗](#)]
- [2019] Runner Up, Innovative Project Idea Contest, University Day 2019, KUET
- [2014] Vocational Board Scholarship by Govt. Bangladesh for outstanding performance in SSC