

Khandaker Abrar Nadib

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RESEARCH INTERESTS

My research interest is at the intersection of Social Computing, Human-Computer Interaction (HCI), and Privacy and Security. Specifically, I am interested in conducting research focusing on understanding and improving user experiences in digital environments.

PUBLICATIONS

Interaction Based Credibility Analysis of News on Facebook Using Machine Learning Methodologies

- Published in [16th International Conference on Signal Image Technology & Internet based Systems \(SITIS2022\)](#).

RESEARCH EXPERIENCE

News Credibility Analysis on Facebook using User Interactions 2021 - 2022

Supervisors: [Dr. Sadia Sharmin](#) (BUET)

- The goal was to propose a more efficient solution to determine news authenticity than existing methods.
- We developed a method of detecting fake news using interaction metrics on Facebook.
- Employed Machine Learning methodologies to classify public Facebook posts based on authenticity.
- The proposed method outperforms existing content-based and NLP-based solutions and is also language-independent.
- Tech:** scikit-learn, pandas, matplotlib.

EDUCATION

Bangladesh University of Engineering and Technology (BUET) Dhaka

Bachelor of Science in Computer Science and Engineering

Feb 2017 – May, 2022

- CGPA: 3.50/4.00**
- Major CGPA: 3.68/4.00**

STANDARDIZED TEST SCORES

TOEFL

Speaking: 29, Reading: 29, Listening: 28, Writing: 28

114

GRE

Quant: 162, Verbal: 153, AWA: 4.5

319.5

WORK EXPERIENCE

Software Engineer May 2022 – Present

[Optimizely](#), Dhaka

Digital Asset Management

November 2022 – Present

- Technologies: Python, Flask, JavaScript, TypeScript, React.js, MySQL, MongoDB, Alembic, Celery, Elasticsearch

Asset Renditions

May 2022 – October 2022

- Technologies: Python, FastAPI, MySQL, PostgreSQL, Docker, Kubernetes, Message Queue

PROJECTS

- Online Art Gallery** | *Library: React.js, Node.js, Express.js, Mongoose, Database MongoDB* 2021
- Designed an e-commerce platform for an Art Gallery.
 - Virtual exhibitions simulated using virtual rooms.
- AES (Advanced Encryption Standard)** | *Language: Python, Libraries: numpy* 2021
- Encryption and Decryption algorithm for 128-bit key size implemented using Python and numpy.
- Rendering scenes using Ray Tracing** | *Language: C, Libraries: OpenGL* 2022
- An interactive environment designed in C using OpenGL.
 - Lighting for the environment implemented using the Phong Reflection Model
- Compiler for a Subset of C Language** | *Language: C Libraries: Flex, Bison, 8086* 2020
- Compiler with parser written in C.
 - Compiles to 8086 machine code.
- Live Cricket Scoreboard** | *Libraries: JavaFX, Scenebuilder* 2020
- A headless app that displays live scores in tabular format.
 - Basic files used for storage.
- Backend of an E-commerce Platform** | *Language: PHP, Database: PostgreSQL* 2021
- Designed the backend of a buy-sell platform.
 - Showcased complex database queries.

AWARDS AND HONORS

- Optimizely SPOT Award** October 2023
Nominated by teammates and manager.
- Awarded in recognition of excellent performance and contribution.
- Optimizely SPOT Award** July 2023
Nominated by teammates and manager.
- Awarded in recognition of resolving challenging problems and performance.

TECHNICAL SKILLS

Research Method: Data Scraping, Survey, Mixed-method, Experiment, Prototyping
Languages: JavaScript, Python, Java, C/C++, SQL, PL/SQL
Database: MySQL, Oracle, MongoDB, PostgreSQL
Frameworks: Flask, React.js, Node.JS, Typescript, FastAPI, Bootstrap
Tools/Software: Git, TensorFlow, Docker, PyCharm, IntelliJ, CodeBlocks, Visual Studio Code, Oracle SQL Developer, Jupyter Notebook, Wireshark
Libraries: Pandas, NumPy, Keras, Matplotlib, OpenCV, OpenGL
Scripting/Markup/Serialization: Bash, TCL, dLTeX, YAML, HTML, JSON;

VOLUNTEERING AND LEADERSHIP EXPERIENCES

Vice President

December 2021- May 2022

BUET Computer Club

- In charge of organizing and running university events under the club's banner.

Vice President

February 2021- April 2022

BUET Dance Club

- In charge of organizing events and workshops on campus.

REFERENCES

[Dr. Sadia Sharmin](#), Associate Professor

Department of CSE, BUET

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