

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*

- Currently working in the Digital Asset Management (similar to Google Drive) team.
- Implemented Brand Template features including Download, Export, access, and Task integration.
- Implementing Searching, Filtering, and Navigation in DAM collection folders.
- Implemented various user activity tracking for analytics.

- Implemented various asset features like meta information, relations, bulk operation improvements, and GPT-3.5-turbo model integration to generate smart content.
- Handled user roles and privileges for various features.
- Made improvements to several backend and UI components in terms of performance, and code quality.
- Technologies: Python, Flask, JavaScript, TypeScript, React.js, MySQL, MongoDB, Alembic, Celery, Elasticsearch

Asset Renditions

May 2022 – October 2022

- Worked on implementing and maintaining a feature Asset Rendition.
- Built three services to generate asset renditions using the given specifications.
- Implemented stateless generators to scale horizontally and integrated asynchronous messaging for decoupling and scaling.
- Integrated the Rendition Service with the local development environment for developers.
- Implemented logging schemes to enable debugging by combining multiple services.
- Technologies: Python, FastAPI, MySQL, PostgreSQL, Docker, Kubernetes, Message Queue

PROJECTS

Online Art Gallery <i>Library: React.js, Node.js, Express.js, Mongoose, Database MongoDB</i>	2021
<ul style="list-style-type: none"> • Designed an e-commerce platform for an Art Gallery. • Virtual exhibitions simulated using virtual rooms. 	
AES (Advanced Encryption Standard) <i>Language: Python, Libraries: numpy</i>	2021
<ul style="list-style-type: none"> • Encryption and Decryption algorithm for 128-bit key size implemented using Python and numpy. 	
Rendering scenes using Ray Tracing <i>Language: C, Libraries: OpenGL</i>	2022
<ul style="list-style-type: none"> • 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 <i>Language: C Libraries: Flex, Bison, 8086</i>	2020
<ul style="list-style-type: none"> • Compiler with parser written in C. • Compiles to 8086 machine code. 	
Live Cricket Scoreboard <i>Libraries: JavaFX, Scenebuilder</i>	2020
<ul style="list-style-type: none"> • A headless app that displays live scores in tabular format. • Basic files used for storage. 	
Backend of an E-commerce Platform <i>Language: PHP, Database: PostgreSQL</i>	2021
<ul style="list-style-type: none"> • Designed the backend of a buy-sell platform. • Showcased complex database queries. 	

AWARDS AND HONORS

Optimizely SPOT Award	October 2023
<i>Nominated by teammates and manager.</i>	
<ul style="list-style-type: none"> • Awarded in recognition of excellent performance and contribution. 	
Optimizely SPOT Award	July 2023
<i>Nominated by teammates and manager.</i>	
<ul style="list-style-type: none"> • 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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