



Maksuda Islam

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Work Experience

2023/01 – present
Dhaka, Bangladesh


Junior Software Quality Assurance Engineer

Nilavo Technologies 

- Test Automation using Playwright & Cypress
- Security testing using BurpSuite
- Validating production changes and reporting bugs
- Manual testing (Content Security Policy, Governance Settings, Multi-Factor Authentication, Outlook add-in, ADFS Server) and writing optimized test cases

2022/07 – 2022/11

Machine Learning(NLP) Course Instructor(Part Time)

Amar iSchool 

Course Title: Introduction to NLP: Case Study Approach

- Content creation and Course conduction
- Made video tutorials for the students following the created content. It is the role of the Course Instructor.

2021/02 – 2021/05

Web Developer Intern

Nascenia Ltd. 

- Implemented the frontend part according to the provided design of web pages ensuring the best possible user experience for users for a pilot project using Bootstrap 5 & integrated that with the backend.

Research Experience

2022/07 – 2023/11

Research Engineer(Apprenticeship)

Pioneer Alpha

Brain Tumor Segmentation:

I collaborated with a four-person team to develop a CNN model that utilized 2D UNET as a foundation to improve the Accuracy and Dice Co-efficient Score of Brain Tumor Segmentation. I focused mainly on the improving evaluation part by fine-tuning the model.

Dental Condition Prediction:

I supervised and directed the operation of the dataset annotation process of 1000 dental x-rays to further use those data for dental condition prediction.

Publications

The Integrity of Source Code Commenting: Benchmark Dataset and Empirical Analysis

11th ICIEV & 6th IVPR, 2023

Status: Accepted, Not Published Yet

Brain Tumor Segmentation using Enhanced U-Net Model with Empirical Analysis

2022 25th International Conference on Computer and Information Technology (ICCIT)

Status: Published

Accelerometer based Complex Nurse Care Activity Recognition using Machine Learning Approach [↗](#)
UbiComp '21: Adjunct Proceedings of the 2021 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2021 ACM International Symposium on Wearable Computers
Status: Published

Education

| | |
|---------------------------------|--|
| 2018/01 – 2022/05 Bangladesh | B.Sc. In Software Engineering <i>Islamic University of Technology</i> CGPA: 3.35/4.00 |
| 2015 – 2017 Bangladesh | Higher Secondary Certificate(HSC) <i>Viqarun nisa noon School & College</i> GPA: 5.00/5.00 (Awarded Government Scholarship) |
| 2005 – 2015 Bangladesh | Secondary School Certificate (SSC) <i>Viqarunnisa noon School & College</i> GPA: 5.00/5.00 (Awarded Government Scholarship) |

Standardized Test Scores

International English Language Testing System (IELTS)
Overall: 7.5 out of 9.0 (L: 7.5, R: 8, W: 6.5, S: 7.0)
TRF No. 23BD009458ISLM050A

Skills

Programming Languages

Python, JavaScript, C

Framework & Libraries

Cypress, Playwright, ReactJS, Pandas, Sklearn

Database Management

MySQL, PostgreSQL

Security Testing

Burp Suite

Collaboration and Management

Trello, Version Control System(GitHub)

Academic Projects

Observing sales data trend: EDA &Cleaning [↗](#)

Utilized: pandas, matplotlib, plotly, seaborn, chart-studio

I examined the 'Black Friday sales' data and extracted sales trends and interesting insights

Computing Code-Comment Consistency [↗](#)

Utilized: Python, Pandas, NLP

I built a model to classify the consistency between code-comment pairs using topic-modeling (LDA) approach and ensemble techniques. It was my thesis work, which later got published in a conference.


Movement Recognition System [↗](#)

(team project)


A prototype of a wearable device to identify the abnormal/unhealthy movement of the subject (patient/elderly being). We constrained ourselves to build a prototype of the project till now that can do binary prediction(Fast Walking & Relax).

Personal Contribution: I implemented the data preprocessing pipeline and contributed in model development.

Achievements

- | | |
|---------|--|
| 2022/06 | Robi Datathon 2.0 A national level Hackathon by Robi Axiata <i>Achieving a commendable placement within the top ~2%</i> I played the role of data analyst to answer the questions from the business perspective. |
| 2021 | Third Nurse Care Activity Challenge HASCA  <i>Our team became fourth and got a chance to present & publish a conference paper as a book chapter</i> |
| 2020 | PROJECT DEBI <i>Digital art got featured in the exhibition</i> |
| 2019 | BRACathon 3.0 A national level Hackathon by BRAC <i>Finalist (Top 10 among 300+ participated teams in the first round)</i> |

Extracurricular Engagements

- | | |
|-------------------|--|
| 2021/10 – 2022/09 | Operations Executive (Sponsorship & Liaison) <i>IUT Computer Society</i> From the preparation of the proposal letters for our prospective sponsors to making sure the communication is done swiftly was my job. |
| 2019 – 2020 | Exchange Participant Manager  <i>AIESEC Bangladesh</i> |
| 2019 | Organizer - Logistics and Reception, IUT 10th ICT Fest <i>IUT Computer Society, Islamic University of Technology, Bangladesh</i> |

References

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