



# Maksuda Islam

**in** [linkedin.com/in/maksuda-islam-lima](https://www.linkedin.com/in/maksuda-islam-lima)

 <https://github.com/maksuda-islam>

 [maksudaislam@iut-dhaka.edu](mailto:maksudaislam@iut-dhaka.edu)

 +8801856455469


 House: 08, Road: 09, Dhanmondi R/A, Dhaka-1209, Bangladesh

## Work Experience

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2023/01 – present  
Dhaka, Bangladesh

### Junior Software Quality Assurance Engineer

*Nilavo Technologies (An off-shore house of Biscom Inc.)* 

- Write Automation Script using Playwright & Cypress
- Maintain & Run Selenium Automation Script
- Load testing using JMeter
- Validating production changes and reporting bugs
- Manual testing (Content Security Policy, Governance Settings, Multi-Factor Authentication, Outlook add-in, ADFS Server etc.) and writing optimized test cases
- Regression Testing
- Payment/Billing System Testing
- UAT Testing

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

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2022/07 – 2023/11

### Research Assistant (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.

## Education

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2018/01 – 2022/05  
Bangladesh

### B.Sc. In Software Engineering

*Islamic University of Technology*

CGPA: 3.35/4.00

2015 – 2017	<b>Higher Secondary Certificate(HSC)</b>
Bangladesh	<i>Viqarun nisa noon School &amp; College</i>
	GPA: 5.00/5.00 (Awarded Government Scholarship)
2005 – 2015	<b>Secondary School Certificate (SSC)</b>
Bangladesh	<i>Viqarunnisa noon School &amp; College</i>
	GPA: 5.00/5.00 (Awarded Government Scholarship)

## Standardized Test Scores

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### 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

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### Programming Languages

Python, JavaScript, C, Java

### Framework, Libraries & Tools

Cypress, Selenium, Playwright, ReactJS, Apache JMeter

### Database Management

MSSQL, PostgreSQL

### Collaboration and Management

Jira, Trello, Version Control System(GitHub)

## Professional Projects

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### Biscom SFT : Secure File Transfer [🔗](#)

- Automate product functionalities using the Playwright automation library (This automation suite is an ongoing project, I have been leading this project for the last 3 months)
- Run automation scripts
- Deploy released versions in the QA Environment
- Manual Testing on SFT Upgrader, SFT Outlook Add-in
- Manual Testing on Multi-Factor Authentication

### Biscom Transit : Cloud SFT [🔗](#)

- Automate product functionalities using Cypress
- Run automation scripts
- Deploy released versions
- Manual Testing on Transit Outlook Add-in, Encryption Tool

### Faxcom Anywhere [🔗](#)

- Run automation scripts and maintain the scripts written in Selenium
- Regression Testing for new product-versions
- Testing the On-Premise Product for Office Account & Agent

## Academic & Personal Projects

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### 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**

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


### **Publication**

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2023/10/28	<b>The Integrity of Source Code Commenting: Benchmark Dataset and Empirical Analysis</b> 6th IVPR & 11th ICIEV (Accepted; Not Published Yet)
2022/12/04	<b>Brain Tumor Segmentation using Enhanced U-Net Model with Empirical Analysis</b>  <i>ICCIT 2022</i>
2021/09	<b>Accelerometer based Complex Nurse Care Activity Recognition using Machine Learning Approach</b>  Association for Computing machinery   ACM Digital Library UbiComp '21: Adjunct Proceedings of the 2021 ACM International Joint Conference on Pervasive and Ubiquitous Computing

### **Extracurricular Engagements**

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2021/10 – 2022/09	<b>Operations Executive (Sponsorship &amp; Liaison)</b> <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	<b>Exchange Participant Manager</b>  <i>AIESEC Bangladesh</i>
2019	<b>Organizer - Logistics and Reception, IUT 10th ICT Fest</b> <i>IUT Computer Society, Islamic University of Technology, Bangladesh</i>

## References

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**Lutfun Nahar Lota**, *Assistant Professor, CSE Department*, Islamic University of Technology  
lota@iut-dhaka.edu

**Md. Al Arman**, *Software Quality Assurance Manager*, Nilavo Technologies Ltd.  
arman@nilavo.com

**MD Abdullah Al Nasim**, *Founder and CTO*, Pioneer Alpha & Amar iSchool  
nasim@pioneeralpha.com