





MUSTAVI IBNE MASUM

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SUMMARY

I am a recent Computer Science and Engineering graduate from Ahsanullah University of Science and Technology (AUST), with a strong academic foundation and practical experience that make me well-suited for a lecturer position. My journey through academia has equipped me with a strong foundation in computer science and engineering, while my dedication to both research and software development has driven my passion to inspire the next generation of learners. I hope to inspire students with my passion for computer science and engineering while supporting their academic interests and fostering their curiosity. My dedication to the field's practical application as well as research guarantees that I can offer a comprehensive educational experience that equips students for the opportunities and difficulties of the rapidly changing tech landscape.

EDUCATION

Ahsanullah University of Science and Technology
Bachelor of Science in Computer Science and Engineering
CGPA: **3.881** on a scale of 4.00(**2nd** in Merit Position)

Dhaka, Bangladesh
Fall 2018 - Spring 2022

Adamjee Cantonment College
Higher Secondary School Certificate
GPA: 5.00 on a scale of 5.00

Dhaka, Bangladesh
2016 - 2018

Dhanmondi Government Boys' High School
Secondary School Certificate
GPA: 5.00 on a scale of 5.00

Dhaka, Bangladesh
2014 - 2016

RESEARCH INTERESTS

Machine Learning, Deep Learning, Natural Language Processing, Computer Vision

UNDERGRADUATE THESIS

Bengali Image Captioning Using Vision Encoder-Decoder Model

Supervisor: Mr. Faisal Muhammad Shah

We have focused on captioning images in Bengali, utilizing a vision encoder-decoder model. This project involves a blend of computer vision and natural language processing (NLP). Our work included experimenting with various vision transformers in the vision encoder to discover the best approach for creating Bengali captions.

TECHNICAL SKILLS

Languages:	Python, C, C++, JAVA, HTML5, PHP, 80x86 Assembly
Database:	MySQL, Microsoft SQL, Oracle SQL
Design Tools:	VSCode, Google Colab, Kaggle Notebooks, CodeBlocks, Netbeans, Microsoft Visual Studio, Jupyter Notebook
Operating System:	Windows
Deep Learning Tools:	PyTorch
Others:	LaTeX

PUBLICATIONS

- ◇ Khan Md Hasib, Md. Atiqur Rahman, **Mustavi Ibne Masum**, Friso De Boer, Sami Azam and Asif Kari. **“Bengali News Abstractive Summarization: T5 Transformer and Hybrid Approach”**. Accepted for Visual Presentation on *The 2023 International Conference on Digital Image Computing: Techniques and Applications (DICTA2023)*.
- ◇ Tajrian Islam Ishan, Abdullah Al Noman, Raisa Rokib, **Mustavi Ibne Masum**, Sifat Ahmed, Faisal Muhammad Shah. **“Bengali Image Captioning Using Vision Encoder-Decoder Model”**. Accepted for Visual Presentation on *26th International Conference on Computer and Information Technology (IC-CIT2023)*.

AWARDS & ACHIEVEMENTS

- ◇ Dean’s List of Honor (Based on B.Sc. result) 2023
- ◇ Certificate for completing the course “Neural Networks and Deep Learning” in Coursera 2023
- ◇ Certificate for completing the course “Mathematics for Machine Learning: Linear Algebra” in Coursera 2022
- ◇ Certificate for participating in Codeware Intra AUST Programming Contest, Spring 2019 (Team Contest) 2019
- ◇ Certificate for participating in Game of Codes Intra AUST Programming Contest, Fall 2018 (Team Contest) 2019
- ◇ Certificate for 1st Position in 2nd BAF Shaheen College Dhaka Science Fair, Project Display (Mechanical), Senior Level 2017
- ◇ Certificate for participating in 3rd Adamjee Cantonment College National Science Festival 2017
- ◇ Certificate for participating in Space apps next gen, Dhaka 2016
- ◇ Certificate for participating in Notre Dame Annual Science Festival 2016 & 26th GKC, Wall Magazine, Senior Level 2016

PROJECTS

1. Intrusion Detection Using Multiple Machine Learning Models
Machine Learning project to detect intrusions.
Link: github.com/Mustavi-99/Intrusion-Detection-Using-Multiple-Machine-Learning-Models
2. SIMS
Student Internship Management System based on PL/SQL.
Link: github.com/Mustavi-99/SIMS-Student-Internship-Management-System
3. Laptop Price Prediction
Predicting laptop prices using machine learning algorithms.
Link: github.com/Mustavi-99/Laptop-Price-Prediction
4. DeshiEats
Php based website project with Microsoft SQL as database.
Link: github.com/Mustavi-99/DeshiEats
5. Genesis Mart
Website project based on ASP.net MVC and Microsoft SQL database.
Link: github.com/Mustavi-99/Genesis-Mart

6. Blind Stick

A hardware project for aiding Blind People using C# and Arduino.

Link: github.com/Mustavi-99/Blind-Stick

7. Zupermart Online Clothing Store

Website project using HTML with CSS as frontend and PhP and Javascript as backend.

Link: github.com/Mustavi-99/Zupermart-Online-Clothing-Store

Interactive Link: mustavi-99.github.io/Zupermart-Online-Clothing-Store/

8. FCMS

Football club management system using JavaFX GUI and Microsoft SQL database.

Link: github.com/Mustavi-99/FCMS

9. IUMS

Java GUI Swing project with MySQL database.

Link: github.com/Mustavi-99/IUMS