



MUSTAVI IBNE MASUM

in Mustavi Ibne Masum ◊  Mustavi-99

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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 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

Computer Vision, Natural Language Processing(NLP), Machine Learning, Deep Learning

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.

PUBLICATIONS

Accepted for Visual Presentation

◊ 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”**. in *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”**. in *26th International Conference on Computer and Information Technology (ICCIT2023)*.

Under Review

◊ Md. Atiqur Rahman, **Mustavi Ibne Masum**, Khan Md Hasib, M.F. Mridha, Sultan Alfarhood, Mejdil Safran, Dunren Che. **“GliomaCNN: An Effective Lightweight CNN Model in Assessment of Classifying Brain Tumor from Magnetic Resonance Images Using Explainable AI”**. in *Heliyon Journal*.

ONGOING RESEARCH PROJECT

◇ Bengali Sentence Similarity

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

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
◇ Tuition Fee Waiver for Spring-2022 Semester	2023
◇ Certificate for completing the course "Mathematics for Machine Learning: Linear Algebra" in Coursera	2022
◇ Tuition Fee Waiver for the Spring-2021 Semester	2022
◇ Tuition Fee Waiver for the Fall-2020 Semester	2021
◇ Certificate for participating in Codeware Intra AUST Programming Contest, Spring 2019 (Team Contest)	2019
◇ Tuition Fee Waiver for the Spring-2019 Semester	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

ACADEMIC 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

EXTRACURRICULAR ACTIVITIES

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| ◇ Organizer of AUST CSE Festival Fall 2021 | <i>2022</i> |
| ◇ Organizer of AUST CSE Football Tournament Fall 2021 | <i>2022</i> |
| ◇ Former Member of Neutrino ACC Science Club (NASC) | <i>2016 - 2017</i> |