



# MUSTAVI IBNE MASUM

in Mustavi Ibne Masum ◊  Mustavi-99

 mustavi-ibne-masum.github.io ◊  mustavi.sadim99@gmail.com

## EDUCATION

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**Ahsanullah University of Science and Technology**  
*Bachelor of Science in Computer Science and Engineering*  
CGPA: **3.881** on a scale of 4.00(**2<sup>nd</sup>** 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

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

## UNDERGRADUATE THESIS

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### **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

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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)*.

◇ 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

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◇ Bengali Sentence Similarity

## TECHNICAL SKILLS

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

## AWARDS & ACHIEVEMENTS

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◇ 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

## ACADEMIC PROJECTS

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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](https://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](https://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](https://github.com/Mustavi-99/Laptop-Price-Prediction)
4. DeshiEats  
Php based website project with Microsoft SQL as database.  
Link: [github.com/Mustavi-99/DeshiEats](https://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](https://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](https://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](https://github.com/Mustavi-99/Zupermart-Online-Clothing-Store)  
Interactive Link: [mustavi-99.github.io/Zupermart-Online-Clothing-Store/](https://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](https://github.com/Mustavi-99/FCMS)
9. IUMS  
Java GUI Swing project with MySQL database.  
Link: [github.com/Mustavi-99/IUMS](https://github.com/Mustavi-99/IUMS)

## **EXTRACURRICULAR ACTIVITIES**

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- ◇ Organizer of AUST CSE Festival Fall 2021
- ◇ Organizer of AUST CSE Football Tournament Fall 2021
- ◇ Former Member of Neutrino ACC Science Club (NASC)