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) bringing academic excellence and practical experience to the table. I have worked on various projects and demonstrated a strong ability to work well in a team. My passion lies in both research and software development, and my research interests include artificial intelligence (AI), computer vision, and natural language processing (NLP). However, I am always eager to expand my knowledge and explore new areas.

EDUCATION

Ahsanullah University of Science and Technology — **Dhaka, Bangladesh**
Bachelor of Science in Computer Science and Engineering — *Fall 2018 - Spring 2022*
CGPA: **3.881** on a scale of 4.00(**2nd** in Merit Position)

Adamjee Cantonment College — **Dhaka, Bangladesh**
Higher Secondary School Certificate — *2016 - 2018*
GPA: 5.00 on a scale of 5.00

Dhanmondi Government Boys' High School — **Dhaka, Bangladesh**
Secondary School Certificate — *2014 - 2016*
GPA: 5.00 on a scale of 5.00

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 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".** Under review in *26th International Conference on Computer and Information Technology (ICCIT).*

◇ Md. Atiqur Rahman, **Mustavi Ibne Masum**, Khan Md Hasib, M.F. Mridha, Sultan Alfarhood, Mejdl Safran, Dunren Che. **"GliomaCNN: An Effective Lightweight CNN Model in Assessment of Classifying Brain Tumor from Magnetic Resonance Images Using Explainable AI".** Under review in *Cancers Journal*.

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