Md. Taslim

CONTACT INFORMATION

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RESEARCH INTERESTS

My research focuses on **machine learning**, **deep learning**, **computer vision**, and **natural language processing**. I am particularly interested in **large language models**, **vision-language models**, and **transformer-based architectures**. Additionally, I explore **multimodal event understanding and generation**, integrating natural language processing with computer vision, with a keen interest in low-resource language applications.

EDUCATION

Bachelor of Science in Computer Science and Engineering at Jashore University of Science and Technology, 2023
- CGPA: 3.61 [**Second Position**][Scale 4]
- Thesis: Decision Support System For Agriculture: Crop Disease Recognition And Classification Through An Optimize Convolution Neural Network (CNN)
- Project: Decision Support System For Pest Control In Agriculture

PUBLICATIONS

1. **Md Taslim**, Md Shafiuzzaman, Mostafijur Rahman Akhond, Md Alam Hossain. "DECISION SUPPORT SYSTEM FOR AGRICULTURE: CROP DISEASE RECOGNITION AND CLASSIFICATION THROUGH AN OPTIMIZE CONVOLUTION NEURAL NETWORK (CNN)." In E-PALLI INTERNATIONAL CONFERENCES (EIC), p. 17. 2023.

2. Bhuiyan Rabiul Alam, Mst Shimu Khatun, **Md Taslim**, Md Alam Hossain. "Handling Class Imbalance in Credit Card Fraud Using Various Sampling Techniques." American Journal of Multidisciplinary Research and Innovation 1, no. 4 (2022): 160-168.

3. Md Asfaqur Rashid, Md Alam Hossain, **Md Taslim**, Md Nasim Adnan. "KRISHOKBOT: AN INTELLECTUAL AGENT FOR FARMERS." In E-PALLI INTERNATIONAL CONFERENCES (EIC), p. 12. 2023.

4. **Md. Taslim**, Md Shafiuzzaman, Md. Moradul Siddique, Md. Alam Hossain: How do machine learning algorithms perform in breast cancer classification? (Under submission).

5. Evaluating Cognitive Levels through Advanced Classification of Exam Questions according to the Revised Bloom's Taxonomy via Large Language Models (WIP).

6. Proactive Question Answering Using Large Language Models for Enhanced User Interaction (WIP).

NOTABLE PROJECTS

1. **Decision Support System for Pest Control in Agriculture**
   Funded by: ICT Division, Bangladesh
   The Decision Support System for Pest Control in Agriculture is designed to assist farmers and agricultural workers in making informed decisions about pest control strategies.

2. **Rice Disease Recognition and Pesticide Recommendation using Deep Learning**
   Funded by: Jashore University of Science and Technology Research Cell
   This project aims to recognize different types of rice diseases and provide recommendations for effective pesticide management using deep learning.

RESEARCH EXPERIENCE	**Research Assistant at Department of Computer Science and Engineering at Jashore University of Science and Technology [March 2021 - April 2023]** • Identified research problems and implemented methodologies • Conducted experiments, analyzed data, and optimized code • Summarized findings for academic papers and collaborated on faculty projects • Assisted with grant proposals and research reports
INDUSTRY EXPERIENCE	**Software Engineer [2023 -] at Polygon Technology Limited, Dhaka, Bangladesh** • Work on diverse international and local projects as a backend software engineer • Contribute to system design, task breakdown, and implementation using Spring Boot MVC • Implement microservice architecture for scalable and maintainable applications • Utilize AWS cloud services including S3, SES, and SNS for robust cloud support **Trainee Software Engineer [2023] BJIT Limited, Dhaka, Bangladesh** • Gained hands-on experience with core Spring framework, including JPA, JDBC, and Hibernate • Worked on projects involving MVC architecture and RESTful API development • Studied and applied microservice architecture principles and various design patterns **Projects** • **Agave**, Japan - 2024 An e-commerce website where users can buy and sell tree plants. • **Energy Portal**, Bangladesh - 2024 A web-based platform that monitors and tracks device energy consumption. • **Zaytoon**, Bangladesh - 2024 A digital payment gateway integrating local banking networks and mobile financial services to enhance transactional efficiency.
PROGRAMMING EXPERIENCE	Solved 600+ programming problems across various platforms. Active participant on LeetCode, earned a 50-day streak badge. **LeetCode**: https://leetcode.com/taslimcse/
RELEVANT COURSES	**Coursera** : Machine Learning, Natural Language Processing Specialization, Deep Learning Specialization, TensorFlow in Practice Specialization, Computer Vision Object Tracking with OpenCV and Python, Feature Engineering. **Undergraduate:** Machine Learning, Artificial Intelligence and Expert System, Data Warehouse and Mining, Numerical Method, Probability and Statistics, Matrix, Vector, and Complex Variables, Laplace, Fourier, and Z Transform, Algorithms Analysis and Design.
TECHNICAL SKILLS	**Operating Systems:** Linux,Windows **Languages:** Python, C, C++, Java, LATEX **Libraries and Tools:** PyTorch, Keras, TensorFlow, NLTK, Scikit-learn, Pandas. **Web Dev.:** Spring Boot, HTML/CSS, ,MySQL, Git, PHP, Javascript, SQL
HONORS AWARDS	• Intra University Mathematics Olympiad - **9th Position** (2022) • Intra College Essay Competition - **2nd Position** (2015)