

# MD. TASLIM

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[GitHub](#)

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## PROJECT

### 1. Decision Support System for Pest Control in Agriculture. Funded by ICT Division.

**Description:** The Decision Support System for Pest Control in Agriculture is a system designed to assist farmers and agricultural workers in making informed decisions about pest control. The system utilizes data analysis and modeling techniques to provide recommendations for the most effective pest control methods based on the specific conditions of a farm or field. This project is funded by the ICT Division, and it aims to improve the efficiency and sustainability of agriculture while reducing the negative impact of pest control on the environment.

**Technology:** Deep Learning.

### 2. Rice Diseases Recognition and Pesticide Recommendation using Convolution Neural Network. Funded by JUST Research Cell.

**Description:** In this project, Convolutional Neural Network (CNN) can be used to recognize different types of rice diseases and provide recommendations for effective pesticide management. The approach involves collecting a large dataset of images of healthy and diseased rice plants, preprocessing the data, training the CNN model, validating and testing the model's accuracy, and using the model to provide recommendations for pesticide application based on the specific disease, stage of infection, and type of rice plant. Also fine tuning the model parameter for better performance.

**Technology:** Convolution Neural Network.

### 3. Bangla Fake News Detection Using an Optimal Deep Neural Network (DNN-BERT) Model:

**Description:** In this project, the dataset was sourced from Kaggle and contains news articles categorized as either authentic or fake. Preprocessing steps were performed on the dataset, including tasks such as lowercasing, stopword removal, special character and punctuation removal, handling rare words, tokenization, and stemming or lemmatization, culminating in feature extraction. The proposed model was trained on this preprocessed dataset, then tested with a separate test dataset to evaluate its performance.

**Technology:** Deep Neural Network and BERT.

## PUBLICATIONS

### 1. Handling Class Imbalance in Credit Card Fraud Using Various Sampling Techniques. [DOI](#).

### 2. KRISHOKBOT: AN INTELLIGENT AGENT FOR FARMERS. [DOI](#).

### 3. Decision Support System for Agriculture: Crop Disease Recognition and Classification through an Optimized Convolution Neural Network (CNN). [DOI](#).

### 4. How machine learning algorithms perform in breast cancer classification? (Under review)

## EDUCATION

**B.Sc. Computer Science and Engineering, Jashore University of Science and Technology, Jashore.** **2023**  
CGPA: 3.61/4 [Second Position].

**H.S.C Science Unit, Govt. Shaheed Suhrawardy College, Dhaka.** **2016**  
GPA: 4.58/5

**S.S.C Science Unit, A. H. High School, Bhola.** **2014**  
GPA: 4.63/5.

## EXPERIENCE

**Programming:** Solved 500+ programming problems in total online. [LeetCode](#).

### Software Engineer (Intern) at BJIT Limited, April 2023 – July 2023

**Research Assistant:** Machine Learning and Deep Learning LAB, Dept. of CSE, JUST Mar. 2021 - Jan. 2023.

## SKILLS

### Programming Language

C/C++, JAVA, Python.

### Web Development

Spring Boot, SQL Server, Git.

### Machine Learning

Machine Learning, Computer Vision, Natural Language Processing, Keras, Deep Learning, OpenCV, Scikit-learn, PyTorch, TensorFlow, SQL Server, Git.

## HONORS & AWARDS

1. Mathematics Olympiad (9th Position) **2022**
2. Essay competition award from the Minister of Education (Second Position) **2015**

## TRAINING

### Coursera

1. Machine Learning
2. Deep Learning Specialization
3. TensorFlow in Practice Specialization
4. Computer Vision – Object Tracking with OpenCV and Python.
6. Natural Language Processing Specialization.
7. Data Visualization with Python.
8. Introduction to Data Science in Python.
9. Programming for Everybody (Getting Started with Python).
10. Feature Engineering