

JASMIN JAHAN PUSPO

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EDUCATION

Master's in Computer Science and Engineering

Shahjalal University of Science & Technology

Jan. 2023 – Oct. 2025

CGPA: N/A

Bachelor's in Computer Science and Engineering

North East University Bangladesh

Jan. 2017 – Jun. 2021

CGPA: 3.54 / 4.0

RESEARCH INTERESTS

- Medical Imaging
- Computer Vision
- Machine Learning

PUBLICATIONS

Journal

- TransembleNet: Enhancing vector **mosquito species** classification through transfer learning-based ensemble model. *Plos One (Q1)*, 2025 🔗

Conference (First Author)

- BengaliTaka: A Comparative Analysis of Transformer and CNNs on **Bangladeshi Currency** Recognition. *QPAIN 2025* 🔗
- SkinNet: An EnsembleNet Technique to Detect **Skin Cancer** Using Pre-Trained Models. *ECCE 2025* 🔗
- A Novel Approach to Classify **Breast Cancer** Using Transfer Learning. *ICCIT 2024* 🔗

MANUSCRIPTS UNDER REVIEW

(First Author)

Journal

- Bangla Taka Recognition Using Transformer Architectures and XAI: A **Novel Dataset** and State-of-the-Art Analysis. *IEEE Access (Q1)*, 2025.

Conference

- Attention-Based CNN Architectures for Automated Binary Classification of Salmon **Fish Diseases**. *WIECON-ECE 2025*
- Explainable Convolutional Neural Networks for Multi-Crop **Leaf Disease** Detection: A Case Study on Three Crops. *IDAA 2025*

ACADEMIC THESIS

One Stage Detection, Segmentation, Shape, and Stage Classification in **Digital Mammography**. *Undergraduate Thesis, NEUB* | 2021

TECHNICAL SKILLS

Programming Language: Python

Deep Learning: CNNs, Transformers, Foundation Models

Framework : TensorFlow, Keras

Data Analysis: Pandas, Scikit-learn, OpenCV

Data Annotation : Labellmg, VGG Image Annotator

Tools: Git, JIRA

RESEARCH EXPERIENCE

Research Collaborator <i>Elite Lab Remote</i>	Sep. 2025 - present <i>Dhaka, BD</i>
<ul style="list-style-type: none">Working on image-data analysis using Transformer architectures and XAI (explainable AI) techniques.Collaborating with lab team to develop innovative research methodologies, improving efficiency and accuracy.	
AI Researcher <i>SafeNet.AI Remote</i>	Jan. 2025 - Jun. 2025 <i>Dhaka, BD</i>
<ul style="list-style-type: none">Implemented attention-based CNN models for classifying fish diseases into healthy and infected classes, focusing on XAI techniques to explain model predictions.	
Volunteer Research Intern <i>Remote</i>	Sep. 2023 – Feb. 2024
<ul style="list-style-type: none">Analyzed experimental results and authored the literature review for a study on mosquito diseases.Summarized from recent research papers and wrote a literature review catalog template	



PROFESSIONAL EXPERIENCE

ML Engineer <i>NxtVis Remote</i>	Feb. 2025 - Apr. 2025 <i>Dhaka, BD</i>
<ul style="list-style-type: none">Developed and optimized deep learning models for real-time video anomaly detection, improved dataset quality.	
Content Writer <i>Russkin Bright Hybrid</i>	Oct. 2022 - May 2023 <i>Sylhet, BD</i>
<ul style="list-style-type: none">Researched and created engaging curriculum, book chapters, and MCQ for various courses.Wrote sales content of 300-450 words by maintaining 100% quality and zero plagiarism.	

TEACHING EXPERIENCE

ICT Lecturer (9 th – 12 th) grade <i>Women's Model College</i>	Feb. 2024 <i>Sylhet, BD</i>
<ul style="list-style-type: none">Was responsible for daily 40-minute multimedia classes and delivered up to four lectures per day.Conducted classes covering technological topics, including theoretical coursework, and programming languages.	
ICT Teacher (3 rd – 8 th) grade <i>Sylhet International School and College</i>	Sep. 2022 - Dec. 2022 <i>Sylhet, BD</i>
<ul style="list-style-type: none">Prepared lesson plans including laboratory class, lecture, exam, and homework.Graded assignments, tests, and lab work, providing feedback to help students improve academically.	
Peer Tutor (3 rd – 12 th) grade	May 2013 – Jun. 2024
<ul style="list-style-type: none">Designed lesson plans and materials to simplify concepts, enhancing student understanding and engagement.Assisted students with college admissions, supporting them in securing placements at reputable colleges.	

DATASET COLLECTIONS

- Bengali Paper Currency 
- Bengali Sign Language 

STANDARDIZED TEST RESULTS

- IELTS Academic: Overall **6.0** (L: 6.0 | R: 6.5 | W: 5.5 | S: 6.0)

ACADEMIC SERVICE

- Conference Reviewer: **ICCIT 2025**