

JASMIN JAHAN PUSPO

✉ jasminjahanpuspo@gmail.com | 🚩 <https://jasminjahanpuspo.github.io/> | 💎 Sylhet, Bangladesh

EDUCATION

Master's in Computer Science and Engineering <i>Shahjalal University of Science & Technology</i>	Jan. 2023 – Oct. 2025
	CGPA: N/A

Bachelor's in Computer Science and Engineering <i>North East University Bangladesh</i>	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)

- Attention-Based CNN Architectures for Automated Binary Classification of Salmon **Fish Diseases**. *WIECON-ECE 2025*
- 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.

ACADEMIC THESIS

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

TECHNICAL SKILLS

Programming Language: Python, C

Deep Learning: CNNs, Transformers, Foundation Models

Framework : TensorFlow, Keras

Data Analysis: Pandas, Scikit-learn, OpenCV

Data Annotation : LabelImg, VGG Image Annotator

Tools: Git, JIRA

RESEARCH EXPERIENCE

Research Collaborator	Sep. 2025 - present
<i>Elite Labl Remote</i>	Dhaka, BD
• 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	Jan. 2025 - Jun. 2025
<i>SafeNet.AI Remote</i>	Dhaka, BD
• 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 Remote	Sep. 2023 – Feb. 2024
• 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	Feb. 2025 - Apr. 2025
<i>NxtVis Remote</i>	Dhaka, BD
• Developed and optimized deep learning models for real-time video anomaly detection, improved dataset quality.	
Content Writer	Oct. 2022 - May 2023
<i>Russkin Bright Hybrid</i>	Sylhet, BD
• 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 (9th – 12th) grade	Feb. 2024
<i>Women's Model College</i>	Sylhet, BD
• 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 (3rd – 8th) grade	Sep. 2022 - Dec. 2022
<i>Sylhet International School and College</i>	Sylhet, BD
• 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 (3rd – 12th) grade	May 2013 – Jun. 2024
• 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: **ICEF 2026**