

JASMIN JAHAN PUSPO

✉ jasminjahanpuspo@gmail.com | | 🎓 Academic Portfolio | 📍 Sylhet, Bangladesh

EDUCATION

Master's in Computer Science and Engineering <i>Shahjalal University of Science & Technology</i>	Jan. 2023 – present <i>CGPA: N/A (in progress)</i>
Bachelor's in Computer Science and Engineering <i>North East University Bangladesh</i>	Jan. 2017 – Jun. 2021 <i>CGPA: 3.54/4.0</i>

RESEARCH INTERESTS

- Medical Imaging
- Computer Vision
- Machine Learning

PUBLICATIONS

In Review

EnsembleNet: Enhancing vector mosquito species classification through transfer learning-based ensemble model. *Q1 Journal 2024* 📄
A Novel Approach to Classify Breast Cancer Using Transfer Learning. *ICCIT 2024*
SkinNet: An EnsembleNet Technique to Detect Skin Cancer Using Pre-Trained Models. *ECCE 2025*
A Transformer Approach for Brain Tumor classification in MRI images. *ICCV 2025*

ACADEMIC THESIS

An Average K-fold EnsembleNet Approach for Binary Classification in Digital Mammography. *Master's Thesis, SUST | 2024*
One Stage Detection, Segmentation, Shape, and Stage Classification in Digital Mammography. *Undergraduate Thesis, NEUB | 2021*

TECHNICAL SKILLS

Programming Languages: Python, C, Java
Frameworks and Libraries: TensorFlow, Keras, PyTorch
Data Analysis Tools: Numpy, Pandas, Scikit-learn, OpenCV

RESEARCH EXPERIENCE

Volunteer Research Intern | Remote Sep. 2023 – Feb. 2024

- Collaborated with team members to develop innovative research methodologies, improving efficiency and accuracy
- Summarized from recent research papers and wrote a literature review catalog template

TEACHING EXPERIENCE

Trainee ICT Lecturer | (9th – 12th) grade Feb. 2024
Women's Model College Sylhet, BD

- Responsible for taking 40 minutes of multimedia class each day up to 4 lectures
- Taught learning, reading, writing, and timing strategies to enhance students' marks

ICT Teacher | (3rd – 8th) grade Sep. 2022 - Dec. 2022
Sylhet International School and College Sylhet, BD

- Prepared lesson plans including laboratory class, lecture, exam, and homework.
- Graded papers, made questions, and took class tests.

WORK EXPERIENCE

Content Writer | Hybrid Oct. 2022 - May 2023
Russkin Bright Sylhet, BD

- Researched and created engaging curriculum, modules, and MCQ for various courses.
- Wrote sales content of 300-450 words by maintaining 100% quality and zero plagiarism.

DATASET COLLECTIONS

- Bengali Taka
- Bengali Sign Language
- Nagri Alphabet
- Annotated Oral X-ray

PERSONAL PROJECTS

Fully Automatic Computer-aided Mass Detection and Segmentation via Pseudo-Color Mammograms and Mask R-CNN

- Reduced image size using MatLab; Data size: 8.38 GB; Mask R CNN algorithm experimented on Gray and PCM images and predicted 67% and 87% accuracy.

Object Detection & Segmentation

- Gathered and annotated data (15 images) from the internet
- Detected and segmented aimed objects via the Mask R CNN algorithm, leading to 95% success.

ACADEMIC PROJECTS

Breast Cancer Classification

- Utilized an ideal CNN model to classify the binary cancer stage with 95% accuracy on the MIAS dataset.

Bangla Money Recognition-Kaggle

- Classified Bangla Nine notes with KNN, Linear Regression, and CNN algorithms from scratch and compared them with Scikit Learn libraries to obtain similar accuracy.
 - * Key achievement: Github Arctic Code Vault Contributor 2020

Titanic Survival Prediction-Kaggle

- Trained RF and KNN algorithms to predict whether passengers would survive and received a 71% score.

Object Info

- Collected short descriptions and a single image of 25 objects from the internet as input; identified and briefly described an object with pronunciation as output.

Line Follower Robot

- The four-wheeled robot passed in a particular direction, i.e., lines (90, 180 degrees) and angles (V, U shapes)
 - * Key accomplishment: Placed second in the NEUB ICT Fest 2018.

LEADERSHIP EXPERIENCE

Private Tutor

May 2013 - Jun. 2024

- Tutored for school and college students to achieve better grades