

# JASMIN JAHAN PUSPO

jasminjahanpuspo@gmail.com

jasminjahanpuspo.github.io

(+880) 1842429020

## EDUCATION

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<b>B.Sc (Engg.)</b>	North East University Bangladesh Major: Computer Science & Engineering CGPA: 3.54/4.00	January 2017-June 2021
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## RESEARCH INTEREST

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- Medical Imaging
  - Computer Vision
  - Machine Learning

## RESEARCH EXPERIENCE

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<b>Undergraduate Thesis</b>   NEUB	Sylhet, BD
Supervisor: Muhammad Mahir Hasan Chowdhury	July 2020-June 2021
<ul style="list-style-type: none"><li>• Segmented gray images via the Mask R CNN algorithm and classified shapes using CNN to obtain their stage.</li><li>• Defended thesis in front of board members.</li></ul>	

## TEACHING EXPERIENCE

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Sylhet International School and College, Sylhet, BD. ICT Teacher( 3rd - 8th grade)	September 2022-Present
Responsibilities <ul style="list-style-type: none"><li>• Prepare lesson plans, and grade papers, make questions, and take class tests.</li><li>• Report students' performance weekly to the school board</li></ul>	

## WORK EXPERIENCE

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Ruskin Bright Sales Content Writer (Part-time/Remote Job)	October 2022-Present
Responsibilities <ul style="list-style-type: none"><li>• Researched and created interesting content for a variety of social media platforms.</li><li>• Wrote 34+ sales content of 300-450 words by maintaining 100% quality and zero plagiarism.</li></ul>	

## PERSONAL PROJECTS

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<b>Fully Automatic Computer-aided Mass Detection and Segmentation via Pseudo-Color Mammograms and Mask R-CNN:</b> <ul style="list-style-type: none"><li>• Conceptualized and implemented this research paper.</li><li>• 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.</li></ul>	
<b>Object Detection &amp; Segmentation:</b> <ul style="list-style-type: none"><li>• Gathered and annotated data (15 images) from the internet; created charts in Google Colab to perform preliminary analysis and visualize data using Matplotlib.</li><li>• Detect and segment aimed objects via the Mask R CNN algorithm, leading to 95% success.</li></ul>	

## ACADEMIC PROJECTS

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**Breast Cancer Classification:**

- Utilize 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 Random Forest, KNN algorithms to make predictions such that passengers would survive or not and receive a 71% score.

#### **Tic Tac Toe:**

- Designed a 5\*5 GUI interface in Python using the Tkinter module that decides whether a player wins, loses, or ties with the computer.

#### **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.

#### **Desktop Application:**

- Find specific files from local desktop disks written in Java.

#### **Line Follower Robot:**

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

#### **Vision-based Vacuum Cleaner:**

- Avoid the frontier obstacles automatically while vacuuming the floor.

#### **Study Management System:**

- Design and establish a user-friendly website with PHP, HTML5, CSS3, and MySQL where students can store their study materials.

#### **Medicare:**

- Establish an interactive website that provides health-related information using PHP, HTML5, CSS3, and MySQL.

## **TECHNICAL SKILLS**

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**Programming Languages:** Proficient in C, Java, Python

**Data Analysis Tools:** Scikit-learn, OpenCV, Numpy

**Deep Learning Frameworks:** TensorFlow, Keras

## **COURSES ON DATACAMP**

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Biomedical Image Analysis in Python by Stephen Bailey

[certificate](#)

Image processing in Python by Rebeca Gonzalez

[certificate](#)

## **LANGUAGES**

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**Bangla:** Native Language;

**English:** Fluent Language;

**Hindi:** Fluent Language