

JASMIN JAHAN PUSPO

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EDUCATION

B.Sc (Engg.)	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

Undergraduate Thesis NEUB	Sylhet, BD
Supervisor: Muhammad Mahir Hasan Chowdhury	July 2020-June2021
<ul style="list-style-type: none">• Segmented gray images via Mask R CNN algorithm and classified shapes using CNN to obtain their stage.• Defended thesis to the board members of the department.	

PERSONAL PROJECTS

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

- Conceptualized and implemented this research paper during my undergrad thesis.
- 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, respectively.

Object Detection & Segmentation:

- Gathered and annotate data (15 images) using VGG annotator; Created charts in Google Colab to perform preliminary analysis and visualize data using Matplotlib.
- Detect and segment aimed object via Mask R CNN algorithm leading to 95% success.

ACADEMIC PROJECTS

Breast Cancer Classification:

- Utilize an ideal CNN model to classify the binary stages of cancer with 87% accuracy on the MIAS dataset.

Bangla Money Recognition-Kaggle:

- Classified Bangla Nine note's 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 win, lose or tie between player vs computer.

Object Info:

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

Desktop Application:

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

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

Programming Languages: Proficient in C, Java, Python

Data Analysis Tools: Scikit-learn, OpenCV, Numpy

Deep Learning Frameworks: TensorFlow, Keras

COURSES ON DATACAMP

Biomedical Image Analysis in Python by Stephen Bailey

[certificate](#)

Image processing in Python by Rebeca Gonzalez

[certificate](#)

LANGUAGES

Bangla: Native Language;

English: Fluent Language;

Hindi: Fluent Language