# Mahfuzur Rahman Mahim

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## Experience

**Silicon Orchard LTD.**

*House 01, Avenue 01, Block D,*
*Section 11, Mirpur, Dhaka 1216*

Junior Software Engineer (Machine Learning Team)

*March. 2024 -*

## Education

**Ahsanullah University of Sceience and Technology**

*Tejgaon, Dhaka, Bangladesh*

Bachelor of Science in Computer Science and Engineering, CGPA:2.849/4.00

*July 2019 - December 2023*

**BCIC college**

*Zoo Road, Mirpur, Dhaka,*
*Bangladesh*

Higher Secondary School Certificate Examination, GPA: 4.25/5.00

*July 2018*

**Monipur High School**

*Rupnagar, Mirpur, Dhaka,*
*Bangladesh*

Secondary School Certificate Examination, GPA: 5.00/5.00

*May 2016*

## Skills

| | |
|---|---|
| **Languages** | Python, C/C++, Java |
| **Scripting** | LaTeX |
| **IDE** | PyCharm, Jupyter Notebook, CodeBlocks, Visual Studio |
| **Editors** | Visual Studio Code, Notepad++ |
| **Database** | MS SQL |
| **MS Office** | MS Word, MS Powerpoint, MS Excel |
| **Deep Learning Frameworks** | TensorFlow, PyTorch, Langchain |

## Research

- **Knowledge Graph Embedding and Graph Convolutional Network based approach to Gene-Disease Association Prediction (On going)**

## Projects

### Converting Semantic Segmentation to Object detection

- Converted Semantic segmentations to object detection(bounding box annotations)
- Used python OpenCV library for the main convertion task
- Used the images from the dataset RescueNet by Rahnemoonfar et.al. for my task
- Converted the coordinates of the mask objects to YOLO coordinate format
- The bounding boxes were drawn considering the objects minimum area so that the bounding boxes don't overlap much
- project git link: Git Link

### ML learning ECG dataset

- A General ML Learning classification task using supervised unsupervised and ensemble approach
- Performed EDA; Explored the dataset and implemented five supervised models (logistic regression, decision tree, linear SVC, SVM, k-nearest neighbors): One unsupervised approach (k-means clustering); Three ensemble methods (Random Forest, Gradient Boosting, XGBoost).
- project git link: Git Link

### ApparelVGGnet

- Used VGG16 as a pretrained model to train the Apparel Dataset from kaggle. Necessary comments to understand the code are also provided as it is a learning task.
- project git link: Git Link

### ApparelOwnModelPytorch

- Used Pytorch framework to build a custom CNN Model using the "Apparel Dataset" from kaggle.
- project git link: Git Link

### ApparelOwnModelKeras

- Used keras to build a basic CNN model
- Used Apparel Dataset from kaggle
- project git link: Git Link

### ApparelResNet

- Used Pretrained Model ResNet version 2 on Apparel Dataset From Kaggle to train
- project git link: Git Link

### ApparelInceptionNet

- Used pretrained model Inception Net to train the image dataset
- Used Apparel Dataset From Kaggle
- Project git link: Git Link

## Language Proficiency

- Bengali (Native)
- English (Intermediate, Fluent)

## Extra-Curricular Activities

- Organized AUST CSE Carnival 1.0
- Organized AUST CSE ODYSSEY Spring 2022
- Organized Naimul Memorial Cricet League Spring 2022

## References


- **Dr. S.M.A. Al-Mamun**
  Professor at Ahsanullah University of Science and Technology
  almamun@aust.edu