Syed Nahin Hossain

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Area of Interest

- Computer Vision
- Image Processing
- Deep Learning
- Machining Learning
- Android App Development

Programming Profile

Kaggle: Syed Nahin Hossain
Codeforces: NAHIN_JZS

Professional Experience

- **Machine Learning Engineer(Part Time)**
  MazeGeek Technologies BD Ltd.
  September,2020 – May, 2021
  Worked with a research team, which is focused on Augmented Reality. I was a collaborator in virtual makeup research.

Education

- **Khulna University of Engineering & Technology**
  BSc in Computer Science and Engineering (2018 – Current)
  Current CGPA: 3.44/4.00
  Co-Curricular Activities:
  - **Jashore Association of KUET (JAK)**
    President (2022 - Current)
  - **Hardware Acceleration Club of KUET (HACK)**
    Organizing Secretary (2022- Current)
  - **Jashore Association of KUET (JAK)**
    Assistant General Secretary (2019-2020)
  - **15 day Leadership School**
    Campus Ambassador (2019-2020)

- **Govt M.M College, Jashore**
  Higher Secondary Certificate (2017)
  GPA: 5.00/5.00

- **Jashore Zilla School, Jashore**
  Secondary School Certificate (2015)
  GPA: 5.00/5.00
  Co-Curricular Activities:
  - **1 no Jashore Zilla School Scout Team, Jashore**
    Petrol Leader (2013-2015)

Project

- **Automatic License Recognizer.** (https://github.com/NAHIN-JZS/License-Plate-Recognizer)
  (Python, Transfer Learning ,YOLOv4,Tensorflow model Zoo, OpenCV)
  An AI system which can automatically detect Bangladeshi license plate from images or videos and then recognize what is written in it. After that the plate number is written into a CSV file.

- **Ghorbari** (https://github.com/NAHIN-JZS/GhorBari)
  (Android, Java, Firebase)
  An android application where a house renter can find house location wise and the house owner can advertise their empty house so that the house renter can find it.

- **Company e-Commerce and Management System** (https://github.com/NAHIN-JZS/Company_e-Commerce_and_Management_System)
  (C++)
  A company management project where the owner of the company can upload their product along with price and other information. They can also update their product. Customers can make an ID, where all the customers information (name, address, phone number, email, balance etc.) are stored. This is completely written in C++.

Research

- **Automatic License Plate Detection and Text Recognition.**
  (Python, CNN, Transfer Learning)
  The whole process was divided into 3 parts: License plate localization, Text Recognition, formatted output generation. 7 pre-trained models were tested for the first two stages and shown the comparison. 99.3% mAP and 96.4% mAP was gained for the first two stages accordingly. An algorithm was developed to make the proper formatted output. A new dataset was also introduced. A paper has been published in the Springer Lecture Notes on Data Engineering and Communications Technologies on this topic.(Link: https://link.springer.com/chapter/10.1007/978-981-16-6636-0_8) This paper was also awarded as Best Paper in the International Conference on Big Data, IoT and Machine Learning (BIM 2021).

Preferable Technologies

Python, Tensorflow, PyTorch, Git, OpenCV, C, C++, Java, SQL, HTML, CSS, php, mysql, Latex

Online Course

- **Advanced Computer Vision with TensorFlow**
  Coursera
  Credential URL : https://www.coursera.org/account/accomplishments/certificate/WGGARW5V77N2
- **Deep Learning Specialization**
  Coursera
  Credential URL: https://www.coursera.org/account/accomplishments/specialization/certificate/H2WE5NNZJ7FP
- **Machine Learning for Everyone TRACK**
  DataCamp
  Credential URL: https://www.datacamp.com/statement-of-accomplishment/track/96ac459575eeee28999bfeda8d0bfa66a8d189cd
- **Introduction to Deep Learning with PyTorch**
  DataCamp
  Credential URL:https://www.datacamp.com/statement-of-accomplishment/course/5e094dcb24d611ce68e67874d8aa4c7548eadda1
- **Databases and SQL for Data Science**
  Coursera
  Credential URL: https://www.coursera.org/account/accomplishments/certificate/3CZZHX4DVLM3

Award & Scholarship

- Best Paper Award at International Conference on Big Data, IoT and Machine Learning (BIM 2021)
- Board Scholarship form Jashore Board (2017) for Higher Secondary Certificate Examination (HSC)
- Board Scholarship form Jashore Board (2015) for Secondary School Certificate Examination (SSC)
- Board Scholarship form Jashore Board (2012) for Junior School Certificate Examination (JSC)
- Scholarship from Jashore Students Welfare Foundation(2011)
- Scholarship from Jashore Students Welfare Foundation(2006)