Nilambar Halder Tonmoy

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Languages
Bangla
English fluency

Skills
Django/Django Rest
Framework, Kivy
Python, C/C++, Java,
PHP, HTML
Machine Learning,
Tensorflow, Image
Processing, Data
Science, Data Analysis,
Arduino, Raspberry Pi
Linux Shell Script
SQL,MySQL

Career Objective
A self-motivated and an inspired team player, who is looking for greater opportunities and growth. Intrigued and inclined towards areas of Machine Learning, Data Science, Software Development, Python, MATLAB Linux Shell Script,SQL,MySQL.

Experience

Graaho Technologies   October 2020 - Present
Jr. Software Engineer
- Building API block using Django Rest Framework for AI applications.
- Data Handling, Data Analysis and Data Processing
- Data Visualization and Characteristics Determination
- Handling and implementing state of the art AutoML libraries
- Building machine learning solution for classification and regression problems

Project Activities

Qesfera Fintech Application
AutoML
- This is a AutoML application where it can be used for any classification problem solution
- I was responsible for dataset preparation and handling
- Analysing Data and cleaning along with exploratory dataset analysis.
- Making Visual representation of the states of any particular dataset
- Creating a AutoML process to train a model and/or predict any given scenario from presaved model.

Generating Human Admissible Language From Bangla Sign Language Using Image Processing
Capstone Project
- Working with bangla sign language to understand and evaluate its usage and impacts.
- Creating a sample database of bangla sign language consisting of hand sign of words.
- Implementing a neural network model that can detect hand sign and classify.
- Building a GUI for windows platform using KIVY
- Github link - https://github.com/tonmoy50/Bangla-Sign-Language-Detection

Facial Expression Recognition

- In this project I was responsible of dataset processing and deep neural network model creation.
- The objective of this project was to create a module that will detect a persons facial expression(e.g. Happy, Sad etc.) in real time. Moreover, I have extended this to for animated facial expression as well.
- Github link - https://github.com/tonmoy50/Face-Expression

Hand Gesture Controlled Garbage Collector (JATSS Clawbot)
Electronics Project
- This project was done for the Electronics project where the motivation was to design and implement a complex system.
- Here I have implemented an semi automated robot that will be controlled using specific hand gesture which in term will provide a series of command that the system will perform
- The whole system was created using Arduino, Servo Motor, Flex Sensor, Bluetooth modules and connection peripheral.
- Github - https://github.com/tonmoy50/jatss_clawbot
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A GPS based Transport Management System

- In this project I have designed a system that provides a solution to the ongoing traffic jam problem by implementing a "Uber" like system.
- The project focuses on creating a system that controls the flow of buses in a specific route along with making a ticket based system that is beneficial in nature for the bus companies to adopt.
- Github link - https://github.com/tonmoy50/transport_management
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Hospital Management System

- In This project I have developed a management tool for a generic hospital using Java Swing. The goal was to provide an easier method of service for hospital staff and patient. Moreover, in this system there is a direct option of communication between a doctor and patient ensuring a continuous connection.
- Github link - https://github.com/tonmoy50/Hospital-Management
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Education

2016 - 2020	**BSc in Computer Science and Engineering** [3.77] United International University	Dhaka, Bangladesh
2013 - 2015	**Higher Secondary Certificate Examination** in Science [4.42] Government Science College	Dhaka, Bangladesh
2013	**Secondary School Certificate Examination** in Science [5.00] Government Laboratory High School	Dhaka, Bangladesh

Participation

2019	**UIU CSE Festival** Programming Contest, 7th	Dhaka
2019	**UIU CSE Project Show** 1st runner-up	Dhaka
2018	**National Collegiate Programming Contest(NCPC)**	Dhaka

Personal Profile

Father	**Narendra Nath Halder**
Mother	**Latika Halder**
Date Of Birth	**27 May 1997**
Nationality	**Bangladeshi**
Religion	**Hindu**

Reference(s)

(1)
Dr. Mohammad Nurul Huda
Professor & Director - MSCSE
United International University
Email : mnh@cse.uiu.ac.bd
Contact: 01759039451

(2)
Mithun Kumar Ghosh
Sr. Software Developer
Synesis IT Ltd.
Contact: 01721356988