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### **Research Interests**

My current Research interested in Machine Learning (ML) and Deep Learning based image processing.

### **Education**

2012-2016, B.Sc. in CSE, Bangladesh University of Business and Technology (BUBT), Bangladesh.

CGPA-3.74

2011, H.S.C, Gurudayal Govt. College, Bangladesh.

GPA-4.20

2009, S.S.C, Bashati High School, Bangladesh.

GPA- 4.38

### **Training and Certifications**

- Machine Learning by Professor Andrew Ng (coursera.org)
- Image and Video Processing: From Mars to Hollywood with a Stop at the Hospital by Duke University (cousera.org)
- Modeling and Simulation using MATLAB from Hochschule Rhein Main University, Germany - University of Applied Science – Wiesbaden Russelsheim (iversity.org)
- Build Your First Android App (Project-Centered Course) form Dr. Virginie Galtier and Michel Ianotto Associate Professor, Research institution in Châtenay-Malabry - CentraleSupélec, France (courser.org).
- Deeplearning.ai (Running coursera.org)

### **Project**

#### **➤ Face recognition**

Face Recognition Project accomplished with convolution neural network, YOLO algorithm, and resnet and Inception network. Manipulating video stream, histogram with Opencv. Tensorflow used for data classification and matrix calculation for multivariate data. Scikit learn, matplotlib, numpy, used to represent data.

- **Echo Cardiogram** (Arduino, AD620\_opamp, TCRT-500\_sensor and circuit board)
- **Line Follower** (Chassis,1000rpm motor, Arduino, IR\_sensor, Black tap\_track, circuit board)
- **Home automation** (Arduino, HC-02 Bluetooth module, circuit board)
- **Quad-copter** (Chassis, 4 11k motor, ESC, Transmitter-Receiver,2Lipo battery, 2servo,2clockwise propeller,2anti clockwise propeller 4inch each, auducup \_NAZE32, Accelerometer & Gyroscope)

## **Publications**

- Md. Omar Faruq, Alim-Al-Reza, Md. Mahbubur Rahman, Mohammad Raisul Alam, “Impact of Social Networking Sites in Bangladesh: Few Possible Solutions", International Journal of Intelligent Systems and Applications(IJISA), Vol.9, No.4, pp.53-60, 2017. DOI: 10.5815/ijisa.2017.04.06.
- Alim-Al-Reza, Md. Omar Faruq, Md. Mahbubur Rahman, “Impact of Cell Phone in Bangladesh: Possible Solutions”, in International Journal of Science and Research (IJSR), Vol. 05, Issue 12, pp.615-620 2016.

## **Programming Contest**

- BUBT Intra university programming contest (2nd position)
- UVA online Judge
- URI online Judge
- Sphere Online Judge (SPOJ)
- ACM ICPC, Dhaka, Bangladesh.

## **Skill**

Programming Language – Python, python vision library, C, C++, Java, Prolog, MATLAB.

IDE – Code block, eclipse, pycharm, sublime text3, Android Studio.

Simulator- NS2, Gazebo, ROS, V-REP.

Database- MySQL.

Document- LaTeX

OS- Ubuntu 16.04 LTS, Windows 10.

## **Reference**

Md. Mahbubur Rahman

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