

KHANDAKAR AMIR HOSSAIN

✉ amirkhondokar@gmail.com

in khondokaramirhossain

☎ +8801722782542

📺 amir_ice_1516_iu

🌐 amir-ice-1516-iu.github.io

📍 House-18, Road-2, Mirpur-6, Dhaka-1216



WORK EXPERIENCE

Jr. Embedded Engineer (IoT):

Nybbles Systems Limited (NybSys Pvt. Ltd.)

📅 Aug 2020 - Present

- Working with IoT team in developing clean code for embadded linux
- Working on improvement and performance of IoT Gateway products
- Learning sensor data harvesting and protocol mechanisms

IoT Intern:

Nybbles Systems Limited (NybSys Pvt. Ltd.)

📅 March 2020 - Aug 2020

- Worked with the IoT team in implementing & testing new features
- Upgraded existing firmware with some really cool features
- Developed GUI and automation tools to enhance productivity for some bowring repetitive tasks.

LEARNING & CERTIFICATIONS

• **Python for Data Science and AI:** [view](#)

An online course organized by **IBM** and offered through **coursera**.

• **Mathematics for Machine Learning:** [view](#)

An online specialization (3 courses) organized by **Imperial College London** and offered through **coursera**.

1. **Linear Algebra.** [view](#)

2. **Multivariate Calculus.** [view](#)

3. **Principle Component Analysis(PCA).** [view](#)

• **IBM AI Engineering :** [view](#)

An online non-credit professional training (6 courses) organized by **IBM** and offered through **coursera**.

1. Machine Learning with Python. [view](#)

2. Scalable Machine Learning on Big Data using Apache Spark.[view](#)

3. Introduction to Deep Learning & Neural Network with Keras.[view](#)

4. Deep Neural Networks with PyTorch [view](#)

5. Building Deep Learning Models with TensorFlow. [view](#)

6. AI Capstone Project with Deep Learning. [view](#)

REMARKABLE PROJECTS

• **Weapon (Gun) Detection and Elimination**

For jewelry Shops and Bank Security :(Using ML & IoT) [view](#)

A prototype that takes live image feeds from camera and detects guns(unauthorized weapon) and locates the center position of the gun. Then sends signal to an electromechanical fire arm to target a laser pointer(Dummy fire arm) on that gun and waits for fire command from authority . Besides there's an extra feature to manually target on any random position by just simply clicking on the live video frame in the designed GUI for the device.

• **Bank Loan approval decision prediction (data model):** [view](#)

In this project I've applied several statistical models to predict whether a loan application should be approved or not by analysing previous banking dataset of other customers. [N.B: Dataset was taken from kaggle and assigned to us by my supervisor]

Dr. Bikash Chandra Singh.]

EDUCATION

B.Sc(Hons) in ICT

CGPA: 3.31/4.00

Islamic University, Bangladesh.

📅 2016 - 2020

Higher Secondary School Certificate

Dinajpur Government College

📅 2013 - 2015

GPA: 4.83/5.00

Secondary School Certificate

Maharaja Girijanath High School

📅 2011 - 2013

GPA: 5.00/5.00

PROGRAMMING SKILLS

Languages: **Python**, C,C++,Java,PHP,Bash
Linux Shell Scripting.

Machine Learning: Numpy, Pandas, PyTorch
Tensorflow, Scikit-Learn, SciPy, matplotlib
OpenCV, Apache Spark, Keras.

Network Programming: socket, MQTT, RTP

Web FrameWork: Django

Database: MySQL, SQLite

ML Algorithms: Statistical Modeling, SVM,
Neural Networks, Classification & Clustering

Next To Learn: Transfer Learning,
Generative Adversarial Networks(GAN).

SOFTWARE SKILLS

• **Object Oriented Programming.**

• **Distributed Version Control with Git**

• **Multi Processing/ Threading.**

• **Event Handling.**

• **Inter Process Communication.**

• **Repetitive Task Automation.**

• **Dead Lock Prevention Precautions.**

• **Clean & Standard Coding Practices.**

PASSIONATE ABOUT

• I want to build my carrier as an AI Engineer. Currently I'm learning several Machine Learning algorithms from online and applying them to several data-sets. It will be Interesting for me to work wth people and/or company that concentrates on Artificial Intelligence or Big Data, Data Science. More specifically Data Mining, Deep Learning, Machine Learning and/or Computer Vision.

REFERENCES

Dr. Paresh Chandra Barman.

@ Professor, Dept of ICT, IU

✉ pcb@iu.ac.bd

☎ +8801727300119

Dr. Bikash Chandra Singh.

@ Associate Professor, Dept of ICT, IU

✉ bikash.singh@ice.iu.ac.bd

☎ +8801648583273