KHANDAKAR AMIR HOSSAIN

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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 hervesting 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-creadit 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 Sing**.]

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

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