






Ajmain Inqiad Alam

A software engineer, Machine Learning professional and IoT enthusiastic, passionate about cutting-edge technology and love to solve real-world problems.

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SKILLS

- **Machine Learning:** LifeLong Machine Learning, Deep Learning, Reinforcement Learning, NLP, RNN, LSTM, CNN, Google AutoML, Google BigQuery, Google Cloud Vision API, Sci-kit Learn, OpenCV, Tensorflow, Pytorch, Keras.
- **Programming Language:** Java, J2EE, Python, PHP, JavaScript (ES6+), MATLAB.
- **Front-end:** ReactJS, Bootstrap, JQuery, AJAX, HTML5, CSS3
- **Database:** OracleDB, MySQL, InfluxDB, Grafana
- **Framework, Server:** Google Cloud Platform, Docker, Laravel, Wordpress & Wordpress plugin, JBoss, Tomcat, Apache
- **API:** RESTful web service, SOAP web service, Google APIs, Paypal and BrainTree Payment API
- **Version Control:** GitHub, BitBucket
- **Operating System:** Linux (Ubuntu, Linux Mint, Arch, CentOS), Windows

EXPERIENCE

Machine Learning Engineer - Full Time

ハイパーダイナ株式会社 - *Within 23 wards, Tokyo, Japan / December 2019 – Present*

- **LifeLong Machine Learning on Time series project:** Using standardization from scratch dynamically pre-process large raw data based on requirement and use it in Continual Learning DNN model with Web UI to monitor model training, tune necessary parameter and check model accuracy using Java, Python, JS, InfluxDB, Grafana.

Junior Software Developer - Full Time

Spider Digital Commerce - *Dhaka, Bangladesh / November 2018 – October 2019*

- Lebupay (Online Payment Gateway): Proactively worked on Lebupay (Online Payment Gateway) and its development and to improve gateway's functionality and improve security system with regular monitoring. Also developed WooCommerce plugin for Lebupay. **Technology used: Java, JSP, Spring Framework, Wordpress.**
- WeTopUp (Online mobile recharge platform) and Bubble.fyi (SMS platform): Worked as one of the developers of WeTopUp (Online mobile recharge platform) and Bubble.fyi (SMS platform). Also worked to develop RESTful API for WeTopUp. **Technology used: Bootstrap, JS, JQuery, AJAX, PHP, RESTful Web Services.**
- API Development: Working experience with Web Services(REST, CURL, SOAP) and JSON/XML based API.
- E-commerce solutions: Developed various E-commerce and insurance solution services for company, for example: Nilkhet BookStore (new and old book buying & selling platform), Cottoncandy Insurance (Insurance service provider for all types of vehicles). I have also developed HR management system for the company. **Technology used: Laravel, Bootstrap, JS, JQuery, AJAX, PHP, ReactJS.**

PROJECT

- **Chatbot**: Developed a **seq2seq DNLP chatbot model** using Cornell movie dataset. It can communicate using terminal.
- **Balancing a cartpole using deep Q-Network**: Developed a **reinforcement model using deep Q network from scratch using Python Gym API** to balance a cart pole without using built in Q library.
- **Natural Image Classification using Pytorch VGGNet and CNN**: Developed two models using Pre-trained VGGNet and CNN, to classify image from Kaggle Natural Image Dataset with accuracy of **Pre-trained VGGNet model accuracy: 99.71%** and **CNN model using Keras accuracy: 81%**
- **Traffic sign recognition**: I have used German GTSRB dataset to recognize the traffic sign using CNN with tensorflow over around 39000 data. **I have gained accuracy 87.1% in test data.**
- **NLP Name Classification**: This project is completed using **Pytorch**. Model is trained with 18 countries name and if input string is given, it will try to detect class of that name.
- **House price prediction**: Developed and trained a Regression model using low level TensorFlow API with **Kaggle score 0.11 and top 15%** to predict house price using Python.
- **IoT Enabled Smart Bicycle Safety System**: This system focuses on bicycle rider safety; reduce road accidents with Intelligence and outdoor tracking **using Java and Arduino**.
- **Slide Puzzle**: Gaming App which has Intelligence to solve mixed puzzle using AI Intelligence using PyGame.
- **Library Management System**: This system uses to manage new users and books requests using **JSP, Servlet, MySQL and Google book API**.
- **Our Deal**: E-commerce system with online secure payment system using PHP, PayPal BrainTree API and live tracking using Google Map API.

EDUCATION

Bachelor of Science in Computer Science & Engineering

BRAC University – 2014 to 2018

CGPA: 3.74 out of 4 (93.5%)

PUBLICATIONS AND CERTIFICATES

- *Journal of Computer Science and Engineering, Volume 01, Number 01, March 2019* Publisher: JAGANNATH UNIVERSITY JOURNAL OF COMPUTER SCIENCE AND ENGINEERING paper titled : ‘[A Technique to Predict Indian Premier League Match Winner using Artificial Intelligence](#)’
- A. I. Alam, M. Rahman, S. Afroz, M. Alam, J. Uddin, and M. A. Alam, “[IoT Enabled Smart Bicycle Safety System](#),” 2018 Joint 7th International Conference on Informatics, Electronics & Vision (ICIEV) and 2018 2nd International Conference on Imaging, Vision & Pattern Recognition (icIVPR), Feb. 2019.
- **Oxford Machine Learning Summer School 2020** - *AI for Global Goals*
- **Google Cloud Platform Big Data and Machine Learning Fundamentals** – *Coursera*
- **Natural Language Processing Nanodegree** – *Udacity*
- **Artificial Intelligence- Full course with Deep learning** – *Udemy*
- **Deep Learning and NLP A-Z™: How to create a ChatBot** - *Udemy*