Ajmain Inqiad Alam

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

SKILLS

- **Machine Learning:** AutoML, Deep Learning, NLP, Reinforcement Learning, Gaussian Process, Google AutoML, Image processing
- **ML Skill:** Sci-kit Learn, Pandas, Numpy, Tensorflow, Keras, Pytorch, OpenCV
- **Programming Language:** Java, J2EE, Python, PHP, JavaScript (ES6+), MATLAB
- **Front-end:** ReactJS, Bootstrap, JQuery, AJAX, HTML5, CSS3
- **Database:** OracleDB, MySQL, InfluxDB, Grafana, Google BigQuery
- **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

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

- **LifeLong Machine Learning on Time series project:** Using standardization and multiple automated pre-processing programs 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 build 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.
- **6.86x Machine Learning with Python–From Linear Models to Deep Learning** - *MITx on edX*
- **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*
- **Introduction to Self Driving Car** – *University of Toronto and Coursera*
- **Deep Learning and NLP A-Z™: How to create a ChatBot** - *Udemy*