

Fabliha Fairouz

Artificial Intelligence Engineer

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EXPERIENCE

Mass Holdings Inc., Tokyo — Artificial Intelligence Engineer

March 2022- PRESENT

- **Sales Forecasting** : FBProphet (best accuracy with holiday effects), ARIMA, XGBoost, TFT, N-Beats etc.
- **Realtime Hair Color simulation** - Hair segmentation (MobileNetV3, U-Net) , Data preprocessing (augmentation, mapping, batching, etc.)
- **Reverse Image Search** - Transfer learning (Xception Model), Data preprocessing (Keras ImageDataGenerator), Background removal (python rembg along with custom algorithm), Text recognition (Keras OCR), Barcode detection (pyzbar)

Shohoz , Dhaka, Bangladesh— Jr. Data Scientist

Nov 2020 - Oct 2021

- **Fraud Detection**: device level fraud, syndicate fraud, provider footprint based fraud, pattern fraud etc.
- **Sales Forecasting**: FBProphet (holiday effects, trend analysis)
- **Data processing** : Automated scripts (data cleaning,mining)
- **Data analysis** : Python scripts for user base analysis, retention analysis, transaction analysis, gross merchandise value analysis, overlapping users in different platform analysis etc.
- **Data pipeline** : Transfer data from MongoDB to Mysql
- **Providers profiling**: Custom algorithm for scoring and profiling delivery men based on traveled distance.

Anyconnect, Dhaka, Bangladesh— Test Automation Engineer

Nov 2019 - Oct 2020

- **Automated Testing Scripts** for Anyconnect smarter camera application testing (Appium, Selenium, Espresso, UI Automator) **Regression testing**, **Documentation** for Raspberry pi based camera firmware installation , **Deployment** of AI Containers, **Codebase investigation** to optimize Memory leakage issue

PROJECTS

- **Investigation of the evaluation techniques to analysis dissected human brain data tractography** : Efficiency comparison of diffusion MRI algorithms (Hungarian, LAPJV algorithm , Greedy) . Statistical Analysis of neuron's voxel size, stream length, streamlines etc. (python Dipy, SciPy, tkinter, fvtk)
- **Earned Wage Transaction Report** - Data processing (Python requests, pymongo, pymysql, numpy, pandas, etc)
- **Stop Violence at Public Places**: Face Detection (Keras preprocessing model, OpenCV), Send emails with attachments.

SKILLS

Programming Language:

Python, Java

Data Science: Machine Learning, Deep Learning

Data Engineering: Data Processing, Cleaning, Augmentation, Visualization etc.

Backend: Flask, Django

Others: ProblemSolving

AWARDS

- Champion at [Robi BDApps 24 Hour Hackathon](#)
- 2nd Runner Up at [IT Business Idea Challenge, BUP ICT FEST](#)
- 2nd Runner Up at Mindsparks by AUST
- People Choice Winner at DIU 24-Hour Hackathon APP Contest
- 4th position Intra AUST Programming Contest 2017

LANGUAGES

English (IELTS overall band score 7), Japanese (N5 level), Bengali (Native), Hindi (Speaking)

ADDITIONAL VALUES

- IELTS (Overall Band Score 7)
- Well presentation skill
- Regular Participation in various Inter-University Programming Contests including ACM ICPC (2016) and National Girls Programming Contest (2016-16th, 2017-19th).

EDUCATION

Ahsanullah University of Science and Technology, Bangladesh — B.Sc in Computer Science and Engineering

May 2015 - July 2019