Fabliha Fairooz

Artificial Intelligence Engineer

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EXPERIENCE

Mass Holdings Co. Ltd. , Tokyo — *Artificial Intelligence Engineer*

March 2022- PRESENT

- **Sales Forecasting**: FBProphet (best accuracy with holiday effects), Contributed to data processing and applying FBProphet.
- **Realtime Hair Color simulation** – Contributed to the algorithm for making haircolor natural, created algorithm for detecting long and short hair and 2 color blending. Also did Data preprocessing (augmentation, mapping, batching, etc.)
- **Reverse Image Search** – Contributed to Background removal (python rembg along with custom algorithm), Text recognition (Keras OCR), Barcode detection (pyzbar).
- Hairstyle Generator: Contributed to time optimization for generating hairstyles and combining MobileStyleGAN with HairFit model.

Shohoz , Dhaka, Bangladesh— *Jr. Data Scientist*

Nov 2020 - Oct 2021

- **Fraud Detection**: Implement algo for detecting device level fraud, syndicate fraud, provider footprint based fraud, pattern fraud etc.
- **Sales Forecasting:** Data processing for applying FBProphet
- **Data processing :** Made the scripts automated (data cleaning,mining)
- **Data analysis** : Developed Python scripts for user base analysis, retention analysis, transaction analysis, gross merchandise value analysis, overlapping users in different platform analysis etc.
- **Data pipeline** : Develop scripts for transfering data from MongoDB to Mysql
- **Providers profiling**: Develop 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

Research

- **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 Dipyy, SciPy, tkinter,fvtk)

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
- 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