

Fabliha Fairouz

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Online Portfolio : <https://fabliha-bd.github.io/site/>



Professional Experience (4 Years 8 Months and above)

Artificial Intelligence Engineer (March 2022- present)

Mass Holdings Co. Ltd. (Tokyo, Japan)

Responsibilities:

- Sales Forecasting API: Contributed to data processing and applying FBProphet. Previously experimented with various models (ARIMA, XGBoost, TFT, N-Beats etc.)
- Realtime Hair Color simulation- Contributed to the algorithm for making hair color natural, created algorithm for detecting long and short hair and blending 2 colors together. 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: StyleGAN2 based project. Contributed to time optimization for generating hairstyles and developing the sample frontend using Angular.

Jr. Data Scientist (Nov 2020 – Nov-2021)

Shohoz Pvt. Ltd. (Dhaka, Bangladesh)

Responsibilities:

- Python-based data mining, cleaning, fraud detection, data pipeline development, script automation, statistical analysis, and customer inventory analysis.

Test Automation Engineer (Nov 2019- October 2020)

Anyconnect Pvt.Ltd. (Dhaka, Bangladesh)

Responsibilities:

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

Academic Credentials

Master of Science in Artificial Intelligence

The University of Texas at Austin

2024-2026 (Ongoing)

Bachelor of Science in Computer Science and Engineering

Ahsanullah University of Science and Technology, Bangladesh

April, 2015 – June, 2019

Research Experience

Generative Adversarial Networks for Data Augmentation (2023) - chapter for the Springer book "Data-driven Approaches to medical imaging"

Investigation of the evaluation techniques to analyze dissected human brain data tractography
(Undergraduate Research Work from April 2018- April 2019)

Technical Skills

- I have been using Python for 4+ years professionally. Proficient in Python libraries used for machine learning, deep learning and computer vision. Such as - **TensorFlow, PyTorch, OpenCV**, etc. I also used Python for **Data Processing, Cleaning, Augmentation, Visualization**, etc.
- I have been using **docker, Kubernetes** for the deployment.
- I am familiar with **Java SpringBoot , Flask, FastAPI**, for the backend, and **Angular, React** for the frontend.
- In my academic years, I used to do problem-solving in C++ and participated in many inter-university programming contests.

Certificates

- Career Essentials in Generative AI by Microsoft and LinkedIn
- Ethics in the Age of Generative AI by LinkedIn
- Generative AI: The Evolution of Thoughtful Online Search by LinkedIn

Extra curricular Activities

- **Champion at Robi BDApps 24 Hour Hackathon 2018**
- **2nd Runner Up at IT Business Idea Challenge, BUP ICT FEST 2018**
- **2nd Runner Up at Mindsparks by AUST 2018**
- **4th position Intra AUST Programming Contest 2017**
- Regular Participation in various Inter-University Programming Contests including ACM ICPC (2016) and National Girls Programming Contest (2016- 16th, 2017 -19th).

Linguistic Proficiency

- English (Fluent Business Level, IELTS Overall band score 7, TRF Number: 22BD002168FAIF050A)
- Japanese (Basic Conversation Level- N4)
- Hindi (Conversational Level)
- Bangla (Native)

Additional Values

- Proficient presentation skills
- Excellent communication and teamwork skills
- Project management and leadership