ABRAR FAIAZ ADNAN

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SUMMARY

Machine Learning Engineer with 2+ years of experience in designing, training, and deploying computer vision and NLP models, including achieving >95% accuracy in YOLOv8 object detection deployments. Skilled in Python, PyTorch, TensorFlow, REST APIs, and data analytics, with a strong portfolio of projects in CV, NLP, and data engineering. Adept at building scalable ML pipelines, performing statistical analysis, and transforming raw data into actionable business insights.

TECHNICAL SKILLS

Machine Learning & AI: PyTorch, TensorFlow, FastAI, Hugging Face, ONNX, OpenVINO, OpenCV, Scikit-learn, Model Evaluation

Data Analysis & Visualization: Python (Pandas, NumPy, Matplotlib, Seaborn), Tableau, ETL, Data Mining, Statistical Analysis, Data Preprocessing

Databases: MySQL, MongoDB, and MS SQL

Development & Automation: Flask, REST APIs, Selenium, PyAutoGUI, Git, Docker, Linux

Soft Skills: Presentation, Communication, Team Collaboration

PROFESSIONAL EXPERIENCE

Software Engineer (Research & Development)

Tiger IT Bangladesh Ltd. | June 2023 – Present

- Developed an algorithm to extract fingerprint minutiae data to improve model accuracy.
- Improved fingerprint authentication accuracy by applying innovative machine learning methods, while also refining fingerprint segmentation, denoising, enhancement, and background removal to streamline the identification process.
- Developed ML-based disease detection system for hip dysplasia using image analysis and visualization techniques, enhancing diagnostic precision. Incorporated advanced preprocessing methods to reduce errors and improve disease identification accuracy.
- Developed and deployed a YOLOv8-based license plate detection model, achieving >95% detection accuracy in production environments.

Skills: Python, PyTorch, PyAutoGUI, OpenCV, ONNX, OpenVINO, Data Analysis, Model Development

Intern (E-Nothi Department)

a2i programme | Feb 2020– Mar 2020

- Verified and appended data for 1,000+ educational institutions in the national education database.
- Collaborated with the data integrity team to resolve mismatches, ensuring 100% data accuracy.

Skills : MySQL

PROJECTS

(Full portfolio: github.com/AbrarAdnan)

- **Speech Analyzer** – Built a video-based speech analysis tool generating five communication metrics; applied NLP pipelines for sentiment evaluation, aiding decision-making.

- **Multilabel Game Genre Classifier** –BERT-based NLP model for 74 genres; achieved 96.4% accuracy using advanced text preprocessing and feature engineering.

- **Distributed Order Fulfillment Backend** – Developed distributed backend for inventory management, asynchronous order lifecycle, and stale order detection using ETL pipelines and predictive workflows.

- **Metacritic Game Data Analysis** – Scraped & visualized 1,00k+ game records; built Tableau dashboard for interactive genre, score, and platform analysis.

- **Data-Driven Ranking of Top CS Universities** – Automated scraping & visualization using Selenium and Tableau, enabling comparative analytics on academic performance.

ADDITIONAL TECHNICAL CONTRIBUTIONS

- **Open-Source Contributor – Blend_My_NFTs** (1k+ GitHub stars): Implemented error-checking automation for 3D NFT blending workflows, improving reliability and reducing failures

EDUCATION

M.Sc. in Information Systems Security – Bangladesh University of Professionals (Ongoing)

B.Sc. in Information and Communication Engineering – Bangladesh Army University of Engineering & Technology (Feb 2017 – Jul 2021, CGPA: 3.56)

TRAINING & CERTIFICATIONS

Dokkho Data Science Program – MasterCourse Bangladesh Ltd. (Nov 2022 – May 2023)
- Completed 4 capstone projects in NLP, computer vision, and analytics.

Skills : Tableau, PyTorch, Selenium, OpenCV, Flask, Huggingface, NLP, Model Deployment, FastAI, TensorFlow

Google Cloud Basics – (Apr 2021 – May 2021)
- Learned GCP workflows for image and language processing.

PUBLICATIONS

<u>Violence Classification and Detection Using Regional Data of Bangladesh: An AI Approach : BAUET Journal</u>
Collected, annotated the dataset and fine tuned using InceptionNetV2 to make a classifier

ACHIEVEMENTS

2nd Runners-Up – **BAUET Intra University Programming Contest** (100+ teams)

Top 15 – **Sheikh Kamal Incubation Center Startup Contest** (150+ teams)

1st Place – **Skill Quiz 2.0 by Youth Development Factory** (University Category)

REFERENCES

Md. Rajib Hossain, Ph.D.

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