

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. Proven ability to achieve over 95% accuracy in YOLOv8 object detection deployments and develop scalable ML pipelines. My expertise includes building scalable ML pipelines and leveraging Generative AI techniques, including LLMs and Retrieval-Augmented Generation (RAG), using frameworks like LangChain and LangGraph. Adept at performing statistical analysis and transforming raw data into actionable business insights.

TECHNICAL SKILLS

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

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

- Improved fingerprint authentication accuracy by refining fingerprint segmentation, denoising, and background removal, and applying innovative machine learning methods 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.
- Engineered and deployed a face recognition-based attendance system, streamlining the check-in process and improving accuracy.

Intern (E-Nothi Department)

a2i programme | Feb 2020– Mar 2020

- Verified and appended data for 1000+ educational institutions in the national education database.
- Collaborated with the data integrity team to resolve mismatches, ensuring 100% data accuracy.

PROJECTS

(Full portfolio: <https://github.com/AbrarAdnan>)

- Geekbot** – Created a secure, private AI document assistant that can run entirely on a laptop, providing fast, confidential Q&A from personal files without cloud services. This project serves as a key foundation for building intelligent chatbots that use external data, showcasing expertise in Retrieval-Augmented Generation (RAG).
- Speech Analyzer** – Built a video-based speech analysis tool that generates five communication metrics. The tool applies NLP pipelines for sentiment evaluation, which aids in decision-making.
- Multilabel Game Genre Classifier** – BERT-based NLP model for 74 genres; achieved 96.4% accuracy using advanced text preprocessing and feature engineering.
- Metacritic Game Data Analysis** – Performed a comprehensive data analysis by scraping over 100,000 game records. Developed a Tableau dashboard for interactive analysis of genres, scores, and platforms.
- Distributed Order Fulfillment Backend Project** – Developed a production-grade backend architecture capable of handling concurrent bulk orders and mitigating race conditions, ensuring data consistency and system integrity.

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

IBM RAG and Agentic AI: Build Next-Gen AI Systems – Coursera.org (Oct 2025)

- Completed 8 course professional certificate with in depth knowledge about LLM and their advanced uses.
- Skills : LangChain, LangGraph, RAG, Vector Databases, CrewAI, AG2, BeeAI

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

Violence Classification and Detection Using Regional Data of Bangladesh: An AI Approach : BAUET Journal

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

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