SAZZAD HUSSAIN FARHAAN

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SUMMARY

Python Programmer with **3+ years of experience** building NLP and CV systems. Passionate about deploying scalable AI for healthcare, education, and social impact. Open to roles in Artificial Intelligence and Machine Learning Engineering.

PROFESSIONAL EXPERIENCE

ASSOCIATE BUSINESS INTELLIGENCE ANALYST   **Dhaka, Bangladesh**
CS Meta Limited | Full-time - Onsite   **August 2024 – June 2025**

First hire on the analytics team. Improved product strategies for the Managing Director and trained the team as it grew to 10 employees. Introduced **Context Engineering Templates** focusing on **LLMs** for Business use cases.
- Engineered automated **ETL pipelines** using **Python (Pandas, SQLAlchemy)** and **Airflow**, cutting data refresh times from 6 hours to under 2 hours and delivering near-real-time financial insights via interactive Power BI dashboards.
- Built and embedded **time-series forecasting models (Prophet, Scikit-Learn)** into department-specific scorecards, increasing BI tool adoption from 25% to 75% across Marketing, Operations, and Sales.
- Authored a library of reusable **SQL queries** and **CTE templates**, reducing manual reporting effort by 50% and empowering analysts to self-serve ad-hoc data requests efficiently.

MACHINE LEARNING ENGINEER   **Dhaka, Bangladesh**
Creative IT Institute | Full-time - Onsite   **November 2021 – February 2024**

Trained and mentored over 100+ aspiring engineers in advanced AI, achieving a 90% completion rate and guiding 30+ capstone projects. Standardised the curriculum across four cohorts, ensuring a consistent and high-quality talent pipeline.
- Engineered and maintained a scalable ML training environment on **AWS** using **Docker** and **EC2**, and implemented an **MLflow** model registry to introduce students to industry-standard **MLOps** practices.
- Authored and delivered a hands-on curriculum covering advanced topics like **Transformers** and **Computer Vision**, achieving a 90% student completion rate through personalised mentorship and code reviews on GitHub.
- Developed template **APIs with FastAPI** and **Streamlit** to teach model serving, enabling students to containerise and deploy their projects as live demos for hackathons, resulting in multiple awards and internship offers.

PROJECTS

AI Chat Summarizer with Intelligent NLP   **Live Demo**
Technologies: Google Gemini API, FastAPI, Streamlit, NLTK, scikit-learn, TF-IDF, TextRank Algorithm, Render
Impact: Built a **conversational AI application** with advanced text summarisation capabilities, deployed on Render and Streamlit.

Early Detection and Diagnosis of Alzheimer's Disease   **Live Demo**
Technologies: OpenCV, Scikit-Image, Keras, TensorFlow, PyTorch, CNN Transfer Learning, DeepChecks, Docker, FastAPI
Impact: Enhanced a **CNN-based model** for the detection of Alzheimer's disease with 99.22% accuracy, reducing screening time by 80%.

EDUCATION

UNIVERSITY OF LIBERAL ARTS BANGLADESH (ULAB)   **Dhaka, Bangladesh**
Bachelor of Science in Computer Science and Engineering, CGPA: 3.69 OUT OF 4.00   **2016-2021**
Project: Natural Language Processing-based Quality LMS for Students' Evaluation and Engagement Metrics Calculation
- Vice Chancellor's Honours List Scholarship, Summer 2016.
- Awarded a merit-based Scholarship worth 3,500 USD from the University of Liberal Arts Bangladesh.
- The Gold Standard Awardee, The Duke of Edinburgh's International Award 2025.

TECHNICAL COMPETENCIES

- **Libraries and Frameworks:** TensorFlow, Keras, PyTorch, DLTK, OpenCV, Scikit-learn, Scikit-image, NumPy, SciPy, Tesseract OCR, Seaborn, Streamlit, LangChain, SpaCy, FastAI, React Native, Expo CLI, Hugging Face Transformers.
- **Tools and Platforms:** Git, GitHub, Jupyter Notebooks, n8n, Prompt Engineering, CrewAI, LangGraph, HuggingFace, Docker, AWS Sagemaker, Roboflow, Data Annotation, LaTeX, SPSS, Power BI, Tableau, Beautiful Soup, Selenium.
- **Certifications**: Completed Machine Learning Specialisation from Coursera (Stanford and Deep Learning AI) to master ML Algorithms and Implementation, Completed Data Engineering Fundamentals from LinkedIn Learning.