

Taher Ezzi

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Summary

AWS Certified developer with practical experience in Full Stack Engineering and Machine Learning. Proven ability to build end-to-end applications, from secure cloud infrastructure on AWS to user-facing dashboards in React and mobile apps in Flutter. Passionate about solving real-world problems through automation, efficient system design, and clean code.

Education

Hindustan Institute of Technology and Science
B.Tech in Computer Science (AI & ML Specialization)
- CGPA: **8.6/10.0**

Chennai, India
2021 – 2025

Experience

Curve.ai

Remote
Dec. 2024 – Present

- Developed a comprehensive analytics dashboard using **React.js** to visualize conversational data, enabling users to access sentiment analysis, track leads, review chat history, and playback call audio.
- Architected automated Python ETL/ELT pipelines using **Playwright** and **BeautifulSoup** to scrape complex JS-heavy websites.
- Conducted LLM fine-tuning and performance testing, optimizing conversational accuracy and reducing hallucination rates in production.
- Implemented real-time anomaly detection and auto-schema generation, streamlining data validation for high-volume unstructured data.

Projects

Asset Insight (Secure Financial Pipeline) | AWS (VPC, EC2, RDS), Python, PostgreSQL

Jan. 2024

- Architected a "Zero Trust" AWS cloud infrastructure using **VPC** with public/private subnets and Bastion Hosts to secure financial data ingestion.
- Built a Python-based ETL pipeline using **yfinance** and **pandas** to ingest real-time market data (Bitcoin/Gold), archiving results to **Amazon RDS**.
- Engineered an anomaly detection algorithm on **EC2** to trigger **AWS EventBridge** alerts upon detecting volatility (> 5% deviation).
- Implemented secure database connections using **IAM Roles** and Security Groups, eliminating hardcoded credentials.

Allergent | Flutter, Google ML Kit, SQLite, Open Food Facts API

Nov. 2023

- Developed a cross-platform mobile app for real-time allergen detection using **Google ML Kit** for on-device OCR ingredient scanning, achieving **500+ installs on Google Play Store**.
- Integrated **Open Food Facts API** to enable product search via barcode/name, utilizing local **SQLite** storage for offline history.
- Designed a personalized rule-based detection engine that cross-references scanned ingredients against user profiles to flag allergens.
- Built a clean, minimal UI in **Flutter** with dark mode support, optimizing the scanning workflow for speed and accessibility.

AVR Help App (Ashara 1447) | Flutter, Firebase, Cloud Firestore

Aug. 2023

- Launched a live-ops management app used by **150+ coordinators** during the Ashara 1447 live relay event.
- Built an SOS alert system using **Firebase Realtime Database**, reducing issue response time from 15 minutes to under 2 minutes.

Hairstyle Recommendation System | Python, OpenCV, TensorFlow, CNN

Mar. 2023

- Developed a CNN-based recommendation engine trained on a dataset of Indian actor faces to map facial structures to hairstyles.
- Achieved **85% accuracy** in face shape classification using deep learning techniques and OpenCV for image preprocessing.

Certifications

AWS Certified Machine Learning Engineer – Associate | [LINK](#)

Artificial Intelligence & Machine Learning Graduate (IBM) | [LINK](#)

Technical Skills

Languages: Python, SQL, JavaScript, Dart

AI & ML: TensorFlow, PyTorch, Keras, Scikit-learn, LLMs, Generative AI, OpenCV, XGBoost, NLP

Cloud & DevOps: AWS (VPC, EC2, RDS, SageMaker, IAM), Docker, Git, CI/CD

Development: React.js, Flutter, Node.js, REST APIs, Google ML Kit, Firebase, Android Studio

Data Engineering: Pandas, NumPy, Spark, Hadoop, Playwright, BeautifulSoup, ETL Pipelines