Aashan Javed

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SUMMARY

Machine Learning & AI Engineer with expertise across diverse domains, skilled in developing and deploying scalable models to solve real-world challenges through data.

EXPERIENCE

Software Engineer (Machine Learning) Jan 2025 – Present
FortyGuard *Abu Dhabi*

− Developed 2 m above gorund large temperature model at 10 m resolution, cut median inference time 35% vs baseline, enabling near real-time city-scale maps in the dashboard.
− Improved prediction accuracy by 18% through hyperparameter tuning and data augmentation.
− Productionized predictive models into dashboards, making insights accessible to non-technical users.

Software Engineer (Machine Learning) May 2024 – Dec 2024
FortyGuard, Internship *Abu Dhabi*

− Automated temperature data processing pipelines by integrating frontend dashboards with ML-driven backend APIs, boosting analytics efficiency by 20%.
− Implemented caching and query optimization that reduced response time by 40%, enabling faster real-time climate insights.

Machine Learning Engineer Jun 2023 – Sep 2023
Payactiv SDS IT, Internship *Remote*

− Built fraud detection pipelines using anomaly detection, improving flagging precision by 22%.
− Led LLM-based risk scoring system for internal fraud analytics.

PROJECTS

AlphaEarth Climate Monitoring System

− Integrated DeepMind's AlphaEarth Foundation Model with geospatial pipelines to deliver high-resolution (10m) climate insights.
− Enabled scalable temperature prediction, similarity search, and change detection, empowering urban planners with actionable intelligence.
− Improved satellite-based anomaly detection accuracy by 17% compared to baseline models.
− GitHub: AlphaEarth Climate Monitoring System

Fraudulent Transaction Detection System

− Engineered ML pipeline (Python, Scikit-learn, SMOTE, boosting) that achieved 94% F1 score on imbalanced banking dataset.
− Reduced false negatives by 23% compared to baseline, minimizing risk of undetected fraudulent activity.
− Benchmarked against Kaggle-style datasets, demonstrating robustness under real-world constraints.
− GitHub: Fraudulent-Transaction-Detection-System

Real-time Sign Language Communication System

− Designed ASL-to-text translation system (OpenCV, TensorFlow) with 90%+ accuracy across 25+ gestures.
− Enabled real-time communication at sub-200ms latency, enhancing accessibility for hearing-impaired users.
− Extended model to sentence structuring, improving usability beyond isolated gestures.
− GitHub: Real-time Sign Language Communication System

Legal Document Assistant

− Built NLP assistant (spaCy, Transformers, Flask) to automate clause extraction, summarization, and legal Q&A.
− Integrated Retrieval-Augmented Generation (RAG), boosting contextual response accuracy by 21%.
− Reduced manual document review time by an estimated 35% in simulated legal workflows.
− GitHub: Legal Document Assistant

EDUCATION

National University of Computer and Emerging Sciences (FAST) Islamabad
Bachelors in Computer Sciences *Gold Medalist & Rector's List of Honor*

SKILLS

Programming & ML Frameworks: Python, PyTorch, TensorFlow, Scikit-learn, LangChain, SQL, NoSQL
Cloud/Platforms: Azure, AWS, Docker, Kubernetes, CI/CD
Tools: Airflow, Spark, Kafka, FastAPI, Angular, React

CERTIFICATIONS

Machine Learning Specialization — **Stanford Online**
Google Data Analytics — **Google**
Microsoft Azure Fundamentals — **Microsoft**

IBM Data Science Specialization — **IBM**
LangChain for LLM Application Development — **DataCamp**