MOHAMMED ANSARI

San Jose, California

📞 (669) 288-3655   ✉ mohammed.ansari@sjsu.edu   💼 linkedin.com/in/imohammedansari   🐙 github.com/ByteMaverick
🌐 mohammedansari.dev

Education

San Jose State University   **Aug. 2023 – May 2027**
Bachelor of Science in Data Science — GPA: 3.94(Spring 25) | Cumulative: 3.56   *San Jose, California*
- **Coursework:** Data Structures and Algorithms, Machine Learning, Advance Python, Processing Big Data, Intro to Artificial Intelligence, Object Oriented Design

Technical Skills

Programming Languages: Python, Java, Bash Scripting
Machine Learning & LLMs: Scikit-Learn, TensorFlow, Hugging Face, OpenAI, LangChain, LangGraph
XAI & Data Analysis: SHAP, LIME, Evidently AI, Pandas, NumPy, Matplotlib, Seaborn
Databases & Monitoring: MySQL, MongoDB, Grafana, Prometheus
Cloud & MLOps: AWS, Google Cloud, Docker, Apache Airflow, MLflow, GitHub Actions, Linux
Concepts & Frameworks: RAG, VectorDB, Prompt Engineering, A/B Testing, CI/CD, FastAPI, Streamlit, Git

Technical Experience

ClauseBit – AI-Powered Privacy Analyzer 🐙 ↗   **May 2025 – July 2025**
Creator   *San Jose, California*
- Built an **AI-powered browser extension** and **web app** that delivers personalized summaries of Terms of Service, Privacy Policies, and Cookie Banners using **user-defined privacy preferences**; led UX prototyping in Figma.
- Developed an **Adaptive RAG pipeline** using **LLM APIs + Vector Search** to identify and explain **risky legal clauses** (e.g., data sharing, dark patterns), enabling real-time clause-level querying.
- Engineered a **dynamic knowledge base** with **agentic AI** to scrape and enrich missing company data on demand, reducing manual update workloads by **over 60%**.
- Optimized end-to-end latency to **sub-5s** through chunking, LRU caching, and **async-based concurrency**.
- Reduced **factual hallucinations by 35%** using clause relevance filtering and vector confidence scoring; deployed full-stack system on **GCP (Cloud Run, Functions, Firestore)** with **Auth0** authentication.

LiveDrift: Drift-Aware Stock Predictor 🐙   **Aug 2025 – Present**
Creator   *San Jose, California*
- Designed and implemented a real-time ML system to forecast short-term stock price trends using **LSTM**, **XGBoost**, and technical indicators extracted from `yfinance`, achieving robust directional accuracy.
- Engineered a custom **drift detection** module using **Evidently AI**, applying **Kolmogorov–Smirnov** and **Population Stability Index** tests to detect changes in feature distributions and maintain model integrity.
- Orchestrated the full ML pipeline using **Apache Airflow**, automating tasks from data ingestion to retraining, while tracking experiment versions and metrics with **MLflow** for reproducibility and transparency.
- Deployed the trained model behind a high-availability **FastAPI** endpoint, containerized with **Docker** and hosted on **Google Cloud Run**, integrated with CI/CD pipelines via **GitHub Actions** and shell scripts.

TripSafe: Traffic Accident Risk Prediction Tool 🐙   **April 2025 – May 2025**
Team Lead   *San Jose, California*
- Led a collaborative effort to build a semi-supervised system predicting **accident risk** from 1M+ California records.
- Co-developed interpretable risk labels using **K-Means** and **PCA**; collaborated with peers to rebalance via **SMOTE**.
- Coordinated model selection and tuning using **GridSearchCV** and **cross-validation**, achieving **98% accuracy**.
- Integrated **LIME** explanations into the system to support user-facing risk scores and increase transparency.

Leadership/Extracurricular

Machine Learning Club @ SJSU   **Feb 2025 – Present**
Lead Outreach and Recruitment Officer   *San Jose, California*
- Led onboarding and outreach campaigns that increased member retention by **25%** and drove consistent event turnout.
- Monitored and analyzed weekly **engagement metrics** to optimize recruitment strategies and boost participation.

Certifications and Awards

- **AWS Certified AI Practitioner**   **Jun 2025**
- **Machine Learning A-Z (Udemy)**   **Jul 2025**
- **Dean's List, San Jose State University**   **Fall 2023 – Spring 2024**