

MOHAMMED ANSARI

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Education

San Jose State University

Aug. 2023 – May 2027

Bachelor of Science in Data Science — GPA: 3.94(Spring 25)

San Jose, California

- **Coursework:** Data Structures and Algorithms, Advanced Machine Learning, Advanced Python, Processing Big Data, Object Oriented Design, Linear Algebra, Statistics, Calculus

Technical Skills

Programming Languages: Python, Java, SQL, Bash Scripting

Machine Learning & GenAI: Scikit-Learn, TensorFlow, XGBoost, Hugging Face, OpenAI/Vertex AI APIs

Data Analysis & XAI: Pandas, NumPy, Matplotlib, Seaborn, SHAP, LIME, Evidently AI

Databases & Cloud: MySQL, MongoDB, Vector Databases, AWS, Google Cloud

MLOps & DevOps: Docker, Apache Airflow, MLflow, Git, GitHub Actions (CI/CD), Grafana, Prometheus

Frameworks & Concepts: FastAPI, LangChain, LangGraph, RAG, Vector Search, Prompt Engineering, A/B Testing

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 automatically **scrapes the web** and analyzes privacy policies and terms of service to help users understand risky clauses based on their **personal privacy preferences**.
- 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 QA** and summaries.
- Built a self-updating **knowledge base** with on-demand web scraping agents using **BeautifulSoup + regex** and structured data models with **Pydantic**, cutting manual maintenance by **60%**.
- Reduced **hallucinations by 40%** using clause relevance filtering, vector confidence scoring, and fallback rejection.
- Deployed full-stack system on **GCP** (Cloud Run, Functions, Firestore) with Clerk authentication, optimizing end-to-end latency to **sub-25s** using chunking, LRU caching, and **async-based concurrency**.

DockFlow – Real-Time Bike Dock Availability Predictor 🔗

Aug 2025 – Present

Creator

San Jose, California

- Built a real-time **ML platform** that predicts Bay Wheels bike dock availability 15 minutes in advance to help cyclists find available docking stations, using **dock live feeds**, **weather data**, and **event schedules** in a **time series** model.
- Orchestrated a robust **Apache Airflow ETL pipeline** on **GCS** and **BigQuery** to automate multi-source ingestion, cleaning, and feature engineering, ensuring reliable and reproducible workflows.
- Implemented continuous **model drift monitoring** with **Evidently AI**, applying **statistical drift detection methods** to detect performance decay and trigger adaptive retraining.
- Deployed a containerized **FastAPI** inference service to **GCP Cloud Run** with CI/CD via **GitHub Actions** and comprehensive monitoring in **Prometheus & Grafana** for **XGBoost** model health.

TripSafe – Traffic Accident Risk Prediction Tool 🔗

April 2025 – May 2025

Team Lead — Course Project - A Grade

San Jose, California

- Built a **multi-class accident risk classifier** to help drivers and route planning systems assess traffic safety by analyzing 7M+ U.S. accident records, leading end-to-end development from data cleaning via **Bash scripting** to inference.
- Defined interpretable risk labels (Low, Medium, High) via **K-Means** clustering; applied **PCA** to reduce dimensionality.
- Balanced class distribution with **SMOTE**; tuned **Logistic Regression**, **SVM**, **XGBoost** via **GridSearchCV**.
- Achieved **95% test accuracy** via **cross-validation** with low log loss; validated generalization using **classification reports** and **confusion matrices** for real-world safety and route optimization systems.

Leadership/Extracurricular

Machine Learning Club @ SJSU

Feb 2025 – Present

Lead Outreach Officer

San Jose, California

- Led a **5-officer team**, driving campaigns that increased member retention by **50%** and boosted event turnout.
- Monitored and analyzed weekly **engagement metrics** to optimize recruitment strategies and 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