

# MOHAMMED ANSARI

San Jose, California

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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, Machine Learning, Advance Python, Database Management, Graph Theory, Object Oriented Design

## Technical Skills

**Programming Languages:** Python, Java, R, Bash

**Machine Learning & LLMs:** scikit-learn, TensorFlow, Hugging Face Transformers, LangChain, LangGraph

**Explainability & Data Analysis:** SHAP, LIME, Pandas, NumPy, Matplotlib, Seaborn

**Databases & Storage:** MySQL, PostgreSQL, MongoDB Atlas, SQLite

**Cloud & MLOps:** AWS, Google Cloud, Docker, Apache Airflow, MLflow, DVC, GitHub Actions, Linux

**Concepts & Frameworks:** RAG, Vector Search, RESTful APIs, A/B Testing, CI/CD pipelines, Git, FastAPI, Streamlit

## Technical Experience

### Clausebit – AI-Powered Privacy Analyzer

May 2025 – Present

Creator

San Jose, California

- Designed and built an **AI-powered browser extension** and **web app** that summarizes Terms of Service, Privacy Policies, and Cookie Banners **using user-defined privacy preferences**; led product prototyping in Figma.
- Implemented an Adaptive RAG pipeline using **LLM APIs + Vector Search** to **flag risky legal clauses** (e.g., data sharing, location tracking), allowing users to query and receive simplified explanations of policy clauses.
- Engineered a **dynamic knowledge base** that uses **agentic AI agents** to retrieve and store missing company data on demand, cutting reliance on expensive manual update workflows by **over 60%**.
- Achieved **sub-3s latency** through optimized chunking, document processing, and lightweight GCP deployment.
- Implemented pre-prompt hallucination control by validating clause relevance and filtering low-confidence vectors, reducing **factual errors by 35%**, and deployed on **GCP** using Cloud Run, Functions, Firestore, and **MongoDB**.

### TripSafe: Traffic Accident Risk Prediction Tool

April 2025 – May 2025

Creator

San Jose, California

- Built a web application to predict **traffic accident risk based** on user inputs using real-world California traffic data.
- Generated interpretable risk labels and improved inference time using **K-Means clustering and PCA**.
- Trained and evaluated multiple ML models; selected best-performing model with **98% accuracy**.
- Used **LIME and SHAP** to explain model predictions, enabling transparent risk scores and improving user trust.
- Deployed the Flask application on **AWS with real-time inference and auto-scaling** capabilities for reliable access.

### PennyPilot: Intelligent Budget Management tool

May 2025 – May 2025

Co-Creator

San Jose, California

- Tackled the hassle of manual budgeting by creating a tool that automates **expense tracking from bank statements**.
- Parsed financial data using **pdfplumber**, transforming unstructured PDFs into clean, tabular formats for analysis.
- Leveraged a **BERT-based NLP model** to categorize transactions, outperforming traditional classification models.
- Built a responsive **PyQt5 GUI** for users to view, filter, and manage their budget, with **secure local SQLite storage**.
- Collaborated on product design and planning using **Figma** for UI prototyping and **Notion** for project coordination.

## Leadership/Extracurricular

### Machine Learning Club @ SJSU

Feb 2025 – Present

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 2025