AKSHAYA BALAJI

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OBJECTIVE

Data Analytics Consultant with 2+ years of experience building scalable data systems and enterprise analytics solutions. Hands-on experience in machine learning through personal projects, including applied model development and LLM-based solutions. Seeking Data Science, ML, and AI Engineering roles.

EDUCATION

M.Eng. Electrical Engineering & Computer Science GPA: 3.65/4.0
University of California, Berkeley May 2022

B.Tech. Electronics & Communication Engineering GPA: 9.34/10.0
Vellore Institute of Technology, Vellore May 2020

EXPERIENCE

Data Analytics Consultant July 2022 - May 2025
GJ Cloud Solutions (Client - Microsoft) *Irving, TX, USA*

- Developed GPT-based customer feedback summarization automation PoC on Microsoft Fabric using Python and OpenAI API, reducing processing time for 15k+ entries from 3 hours to 10 minutes.
- Designed SQL tables, transformations, and validation tests to enable customer journey analytics and reporting.
- Built dimensional data models with 30+ tables & views with SQL, Visio, and Excel, including data dictionaries and validation logic, enabling enterprise analytics across multiple business processes for M365 FastTrack.

PROJECTS

CLI-Based Local AI Retrieval Augmented Generation (RAG) System Developed a fully offline RAG CLI using Dockerized Ollama for LLM, LangChain for document ingestion and embeddings, and ChromaDB for vector store, enabling fast, context-aware querying from a local knowledge base text. (Project Repo)

Multi-Class Chest X-Ray Disease Classification Using Transfer Learning Developed an EfficientNet transfer learning model in PyTorch for multi-class chest X-ray classification, improving balanced accuracy to 0.775 and ROC-AUC to 0.834 over baseline CNN. (Kaggle Notebook)

Diabetes Risk Prediction - Binary Classification Conducted exploratory data analysis on 200k+ health records to identify features predictive of diabetes progression Developed and compared multiple models, including Logistic Regression and Random Forest. (Kaggle Notebook)

SKILLS

Technical Skills: Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, PyTorch), SQL
ML & Deep Learning: Regression, Classification, Ensemble Methods, Clustering, Model Evaluation, EDA, Neural Networks, CNNs, Transformers & LLM architectures
Applied AI: Retrieval Augmented Generation (RAG), Prompt Engineering
Data Engineering: Dimensional Modeling
Tools: Microsoft 365 (Word, Excel, Powerpoint, Visio), Docker, Ollama, Git, Jupyter Notebooks
Certifications: AWS Certified AI Practitioner (AIF-C01)