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Projects

AI Compliance & Policy Assistant | Python, FastAPI, Next.js, React, ChromaDB, Llama 3.1, RAG Apr 2026 – May 2026

- Developed a full-stack enterprise document intelligence platform leveraging Retrieval-Augmented Generation (RAG) to enable natural language querying of compliance, policy, and operational documents with source-grounded responses.
- Engineered an end-to-end semantic retrieval pipeline including PDF parsing, text chunking, embedding generation, vector indexing, and cosine similarity-based search using ChromaDB and transformer-based embeddings.
- Integrated locally hosted LLM inference with Llama 3.1 through Ollama, delivering context-aware answer generation, citation-backed responses, and real-time conversational interactions across multiple uploaded documents.

AI Fraud Payement Detection System | Python, Scikit-learn, SQL, Isolation Forest, One-Class SVM, DBSCAN Mar 2026 – Apr 2026

- Created an AI-powered fraud detection system using unsupervised anomaly detection methods to identify suspicious payment transactions without requiring labeled fraud data.
- Constructed a weighted ensemble model integrating Isolation Forest, One-Class SVM, and DBSCAN to enhance detection accuracy across varying transaction behaviors and reduce false positives.
- Established data preprocessing and feature engineering workflows to analyze transaction, behavioral, and device-related attributes for real-time fraud monitoring and risk assessment.

Heart Attack Prediction Model | Python, Scikit-learn, Matplotlib, Seaborn, GridSearchCV, MySQL Jun 2025 – Jul 2025

- Designed a heart attack risk prediction system leveraging clinical health indicators to enable early identification of high-risk patients.
- Built an end-to-end machine learning pipeline incorporating data preprocessing, outlier handling, feature scaling, and model training using Logistic Regression, Random Forest, SVM, and XGBoost.
- Refined model performance through GridSearchCV-based hyperparameter tuning and evaluation using Accuracy, Precision, Recall, and ROC-AUC metrics, achieving ~85% predictive accuracy while supporting model persistence and result visualization.

Training

FifthForce Summer Training | Certificate Jun 2025 – Jul 2025

- Completed an intensive industry-focused ML & AI training program covering end-to-end workflows including data-pre-processing, feature engineering, model development, model evaluation, and real-world deployment practices.
- Gained hands-on experience with supervised and unsupervised learning, deep learning foundations, explainable AI techniques, and practical project building - strengthening both technical skills and problem-solving abilities for real-world applications.

Certificates

Google Cloud – Gen AI Academy 2.0 – AI/ML Track | Certificate Jan 2026
TryHackMe – Advent of Cyber 2025 | Certificate Dec 2025
Infosys – Build Generative AI Apps and Solutions | Certificate Aug 2025

Technical Skills

Languages: Python, C++, Java, JavaScript
Technologies/Frameworks: FastAPI, Flask, React JS, Node.js, Three.js, TensorFlow, PyTorch, Scikit-learn, Transformer, Docker, Redis, SQLAlchemy, Git, GitHub, PostgreSQL
Data & Tools: Pandas, NumPy, Matplotlib, PostgreSQL, REST APIs, AsyncIO
Core Skills: Machine Learning, Deep Learning, Data Structures & Algorithms, Data Pipelines, Feature Engineering, Model Evaluation, Backend Development, Problem-Solving

Education

Lovely Professional University 2023 – 2027
B.Tech - Computer Science and Engineering (AI & ML) - CGPA: 7.86 Jalandhar, Punjab
Sanskriti K.M.V School 2022 – 2023
Intermediate – Percentage: 74.2% Jalandhar, Punjab
Sanskriti K.M.V School 2020 – 2021
Matriculation – Percentage: 90.8% Jalandhar, Punjab