

Chetan Chaudhari

chetan99700rc@gmail.com | +91 9834619103 | Pune, India | Github | LinkedIn

EDUCATION

D.Y Patil College of Engineering

Bachelor of Engineering in Artificial Intelligence and Data Science (CGPA: 9.06)

Akurdi, Pune

2020 - 2024

Fergusson College

12th HSC, Science (Percentage: 76.15%)

Pune, India

2017 - 2019

EXPERIENCE

Associate Software Engineer

Aug 2024 - Present

Tech Mahindra

- **Architected and deployed a full-stack Agentic RAG system** using LangGraph and Databricks, automating enterprise policy compliance checks to improve decision accuracy and reduce manual review time.
- **Engineered a multi-agent LangGraph workflow** for stateful, multi-turn reasoning, enabling initial transaction evaluations and subsequent re-runs with user-provided receipts (via a GPT-4o vision agent) and justifications.
- **Developed a sophisticated retrieval pipeline on Databricks Vector Search**, starting with baseline similarity search and enhancing it with metadata filtering, Maximal Marginal Relevance (MMR) for context diversity, and a Cross-Encoder for re-ranking to deliver highly precise context to the LLM.
- **Developed and implemented the complete backend service using Spring Boot**, featuring REST APIs for transaction management, policy document uploads, and orchestration of the policy check lifecycle. Secured the integration with Databricks using **Azure AD Service Principals (Workload Identity)** and centralized credentials in **Azure Key Vault**.
- **Deployed the LangGraph agent as a secure REST API using Databricks Model Serving**, and implemented a CI/CD pipeline with **Jenkins & BitBucket** for automated model registration in **Unity Catalog** and endpoint updates.

Software Engineer Intern

Jan 2024 – June 2024

The DataTech Labs

- Architected an innovative marketing automation framework that optimized email campaign workflows and real-time analytics; reduced campaign deployment time by an impressive 50%, allowing for more agile marketing strategies.
- Managed and secured the project database using SQL, maintaining maximum data integrity and ensuring zero security breaches throughout the internship.

PROJECTS

Indian Sign Language Recognition | MediaPipe, Machine Learning, Computer Vision

- Developed and deployed a real-time Indian Sign Language recognition system using MediaPipe and TensorFlow, achieving 85% accuracy and enhancing accessibility for speech-impaired individuals.
- Built a custom keypoint extraction and classification pipeline with advanced computer vision techniques, improving gesture translation accuracy by 40% and ensuring robust performance across varied lighting and user conditions.

Twitter Sentiment Analysis | Python, Django, Twitter API, NLP

- Developed a Python-based web application for Twitter sentiment analysis using Django, TextBlob, and Tweepy, achieving improved accuracy through advanced text preprocessing techniques.
- Integrated Twitter API for real-time tweet fetching and analysis, enabling dynamic user input and efficient handling of large datasets with a 30% increase in processing speed.

TECHNICAL SKILLS

Languages: Python, Java, SQL

Frameworks: Spring Boot, Django, Machine Learning, LangChain, LangGraph, NLP, Tensorflow

Tools: Git, Bitbucket, GitHub Copilot, Docker, Postman, Jira, Jenkins

Cloud & Data Platforms: Azure Databricks, Azure AI & OpenAI Services, PostgreSQL, MySQL

CERTIFICATIONS

Microsoft Certified: Azure AI Engineer Associate (AI-102) & Azure AI Fundamentals (AI-900)

AWS Certified Cloud Practitioner (CLF-C02)

Completed certifications in **Machine Learning** and **ChatGPT Prompt Engineering**.