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ROHIT AVINASH PAGAR

Experienced professional with 2.5+ years of experience. Interested in developing intelligent solutions for real world problems through cutting edge technology

Skills

- **Analytical Language:** Python
- **Machine Learning Stack:** Supervised and Unsupervised modeling. RAG, Ollama, ChromaDB, Scikit-learn
- **Exploratory Data Analysis:** Data cleaning, data formatting, and data visualization
- **RDBMS:** SQL
- **Tools/OS:** Git, Docker, Linux
- **Mathematics:** Statistics, Probability, and Hypothesis Testing

Experience

Cognizant Technology Solutions - Senior System Engineer

May 2022 - Present

- **Automation & Cloud Integration (Python, AWS, SQL, Azure AD, Microsoft Graph API)**
 - Developed and implemented Python-based automation using AWS, saving 2.5 FTE, reducing manual effort by 90%, saving 91 hours/month, and earning the Automation Excellence Award.
 - Automated cache refresh reporting using AWS, cutting manual intervention by 50%.
 - Integrated Azure Entra ID with Microsoft Graph API to retrieve MS Teams chat data for communication analysis.
- **Email & Reporting Automation**
 - Built an automated email reporting system, reducing distribution time by 40% and minimizing errors by 15%.
 - Automated SQL database cleanup via Python and Linux cron jobs for optimized system maintenance.

Personal Projects

Retrieval-Augmented Generation Document Intelligence System (Python, LangChain, Ollama, ChromaDB)

- Built a Retrieval-Augmented Generation (RAG) pipeline capable of processing multi-page PDF documents using semantic search and LLMs.
- Implemented document chunking (1100 characters), embedding via nomic-embed-text, and querying with deepseek-r1.
- Designed architecture for scalable document ingestion with incremental updates to avoid reprocessing existing files.

Credit Card Fraud Detection

- Built a machine learning pipeline to detect fraud in highly imbalanced data (284,807 transactions).
- Utilized RandomForest, AdaBoost and XGBoost models, achieving a top AUC of 0.973. Demonstrated skills in data preprocessing, EDA, and model optimization.

Real-Time Stock Market Data Engineering with Kafka and AWS

- Architected an end-to-end pipeline for real-time stock market data using Python, AWS, Apache Kafka, Glue/Athena..

GitHub repository:

- <https://github.com/Rohitpagar18> This repository contains all the case studies/projects I have worked on.

Certificates/Awards

- Automation Excellence Award by Cognizant *(Nov '24)*
- Data Analysis with Python: Zero to Pandas *(Nov '22)*
- Data Analysis with Python by IBM Skill Network *(Aug '21)*

Education

JSPM NTC, Pune

Bachelor of Engineering

June 2020

K.K. Wagh Polytechnic College, MSBTE, Nashik

Diploma in Engineering

June 2015