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👤 Profile

Passionate engineer with expertise in Java, Spring Boot, SQL, and AWS, blending technology and data science to drive smarter financial decision-making. Strong foundation in financial analytics and advanced AI learning from ISB's Data Analytics program, with a focus on turning complex data into actionable insights. AWS-certified and continuously exploring the latest technologies, committed to innovation and delivering real business impact.

🧠 Skills

Programming Languages: Java, Python, SQL

Frameworks and Tools: Spring Boot, REST APIs, Streamlit, Langflow, Scikit-learn, PyTorch, NLTK

Cloud Platforms: AWS (EC2, S3, Lambda), Apache Spark

Databases: MongoDB, Oracle, Neo4j (Graph Databases)

Machine Learning & AI: Predictive Modeling, Sentiment Analysis, Market Basket Analysis, Time Series Forecasting, Regression Analysis, Text Mining, NLP, Recommendation Systems, Generative Models

Data Visualization & Analytics: Tableau, Seaborn, Matplotlib, Bollinger Bands for EDA

Development Tools: Git, Solver Optimization

Messaging Systems: ActiveMQ

Methodologies: Lean Product Principles, Agile Development, Ontology Modeling

📁 Professional Experience

2018 – Present

Bangalore, India

FICO

- **Delivered end-to-end solutions across 10+ projects**, implementing the full SDLC with Java, Spring Boot, ActiveMQ, REST APIs, MongoDB, Apache Camel, and SRL coding.
- **Developed a real-time authorization system** for approving credit and cash transactions, integrating RESTful web services to streamline approvals, declines, and referrals.
- **Designed and deployed a grocery recommendation system** using market basket analysis, leveraging past order data and real-time basket inputs to enhance product recommendations.
- **Led the development of a SaaS banking application**, utilizing Java and MongoDB to integrate credit risk scoring models, optimizing decision-making in authorizations, collections, and marketing.
- **Built an ETL tool using Kettle and Python**, enabling efficient processing and comparison of large-scale JSON files.
- **Designed and implemented a microservices-based fraud detection system**, incorporating Apache Kafka for real-time data streaming and anomaly detection.
- **Integrated machine learning models for customer segmentation and churn prediction** in banking applications, increasing customer retention by 15%.
- **Performed root cause analysis and resolved critical production issues** in live banking systems, ensuring business continuity and minimal downtime.
- **Validated credit risk models** for a major banking client, developing Python-based testing frameworks to ensure regulatory compliance and model accuracy.

Projects

Stock Price Forecasting & Portfolio Optimization

Technology: Streamlit, Python, Scikit-learn, Sentiment Analysis, Bollinger Bands, Time Series Forecasting

Impact: Built a real-time stock forecasting app with sentiment analysis and Bollinger Bands for EDA. Improved portfolio returns by 10% with predictive modeling with an interactive dashboard.

Grocery Recommendation System – Market Basket Analysis

Technology: Python, Apriori Algorithm, Association Rule Mining, Scikit-learn, Pandas

Impact: Developed a recommendation system using market basket analysis, increasing cart value by 15% through personalized product suggestions.

Interactive NLP Chatbot for Compliance

Technology: Langflow, Olama Node, Astra DB, FAISS, Vector Embeddings, LLMs

Impact: Created an AI chatbot for California's Data Sharing and Protection Act compliance. Used vector embeddings and Astra DB for memory management, reducing manual query handling.

Graph-Based Employee Skill Upgrade System

Technology: Graph Databases, Ontology Modeling, NetworkX, Neo4j

Impact: Designed a skill recommendation engine, upskilling 90% of employees by identifying optimal learning paths.

Pricing Simulation – Harvard Universal Rental Car Study

Technology: Python, Regression Analysis, Solver Optimization, Monte Carlo Simulation

Impact: Optimized rental pricing using regression and simulation techniques, increasing projected profit by \$70M through dynamic pricing adjustments based on demand elasticity and competitor analysis.

Certificates

AWS Cloud Practitioner, REST APIs and Design, Data Science with Python and Machine Learning, Data Structures and Algorithms

Education

2024/01 – 2025/06 Hyderabad	Advance Management Program in Business Analytics And AI <i>Indian School of Business</i>
2015/07 – 2019/07 Rajpura	Bachelors in Engineering <i>Chitkara University</i> Scored 9.12 CGPA in Computer Science and Technology.

Awards

Achieved 3rd place at Startup Weekend, earning a one-year co-working space along with Mentorship.

7-time FICO SPOT Award Winner.

Secured 3rd Place in SAP HANA Cloud Platform Hackathon

Co-Curriculum

Represented Haryana two consecutive years in track events.

Organized Cultural Fest "Rangrez" in University.