

Aayush Gavande

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Education

MS Computer Science	Stevens Institute of Technology	Hoboken, USA	2022-2024
BE Computer Engineering, Honor's: Data Science	Savitribai Phule Pune University	Pune, India	2018-2022

Skills

- **Programming Languages:** Python, MySQL, NoSQL, PL/SQL
- **Machine Learning:** Predictive Modeling, Statistical Modeling, Deep Learning, NLP, LLM, Regression, LangChain
- **Data Analysis & Visualization:** Tableau, Excel, Pandas, Scikit-Learn, NumPy, Matplotlib, PySpark
- **Cloud Platforms:** AWS, Google Cloud Platform, Snowflake, Docker, Databricks, Vector DB, Spark, Airflow
- **CI/CD:** Jenkins, Git, AWS Code Pipeline
- **Marketing Analytics Tools:** Big Query, Meta Ads, TikTok Ads, Google Ads, Google Analytics

Professional Experience

Fraud Analyst and Junior Data Scientist Intern, (Experian)	Scottsdale, AZ	07/2024 – Present
<ul style="list-style-type: none">• Effectively deployed a refreshed machine learning model to enhance identity theft detection for incoming applications within Experian Consumer Services, resulting in a 22% improvement in model performance compared to previous generations.• Managed client conversations to demonstrate the value of our Fraud Sandbox solution, empowering clients to compare their data against cross-industry benchmarks enabling clients to identify 12% more third-party frauds.• Templatized the process for first-party and third-party fraud detection for ECS, reducing manual workload for fraud investigation by 15 hours per week.		
Data Science Intern, (Bayer Corporation)	Whippany, NJ	06/2023 - 02/2024
<ul style="list-style-type: none">• Productized cost-effective Generative AI model (Python, Google Vertex AI, Palm 2 LLM) for automated creative production, reducing costs by 99% (from \$5,000 to \$50 per creative) and boosting efficiency.• Significantly improved team efficiency by automating Tableau dashboard analysis through an LLM-based tool, enabling the generation of monthly automated reports.• Designed and implemented Tableau dashboards for UMM, MTA, and MMM data integration, providing brand teams with real-time insights for data-driven decisions for omnichannel marketing.		
Software Developer Intern, (Persistent Systems)	Pune, India	01/2022 - 06/2022
<ul style="list-style-type: none">• Orchestrated and guided a highly collaborative software engineering team in developing scalable software solutions leveraging Java and Spring Boot, resulting in 40% cost savings per quarter.• Optimized complex business logic with Drools rule engine resulting in 30% less system downtime.		
Cloud Developer Intern, (Cloud-Plus-plus)	Pune, India	06/2021 - 01/2022
<ul style="list-style-type: none">• Achieved AWS certification and implemented CI/CD pipeline for company website, increasing development speed by 15% and reducing downtime by 30%.• Led application migration to AWS Cloud for hybrid infrastructure, optimizing performance and reducing cost by 27%.		

Projects

ECS Identity Theft Fraud Detection <i>Python, PySpark, Scikit-Learn, SageMaker, Tableau, Feature Engineering</i>
<ul style="list-style-type: none">• Created a new machine learning model using CatBoost to detect third-party identity fraud, achieving an 83% fraud capture rate.• Integrated multiple data assets (Identity Check, Device Attributes, FraudNet, Precise ID) to enhance fraud detection capabilities by 22% compared to the previous model.• Operationalized the model using Docker, Jenkins and AWS by implementing CrossCore2 ML model deployment pipeline, also optimized the model for Ascend Ops deployment.
Customer Segmentation for Personalized Marketing <i>Python, SQL, Snowflake, Tableau, ETL, Pandas, Scikit-Learn</i>
<ul style="list-style-type: none">• Analyzed audience insights from different advertising platforms like Google Ads, Meta Ads and TikTok Ads based on customer demographics, transaction data and product usage patterns.• Developed visualization dashboards using Tableau and performed clustering analysis to identify appropriate marketing strategies for different products achieving 15% higher customer outreach at 20% reduction in cost.
Credit Card Fraud Transaction Detection <i>Python, MySQL, Pandas, Scikit-Learn, AWS, Predictive Modeling</i>
<ul style="list-style-type: none">• Built a real-time fraudulent transaction detection system (XGBoost model) achieving 90% accuracy, identifying suspicious transactions and notifying clients for potential loss prevention.
LLM Based Q&A Chatbot for Insurance Claims <i>Python, LangChain, AWS Bedrock, Vector DB, Open AI</i>
<ul style="list-style-type: none">• Developed a next generation chatbot utilizing Llama2 LLM and RAG technology for natural language search, reducing information retrieval time by over 50% for customer inquiries.