Aman Jaglan

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PROFESSIONAL SUMMARY

Data Analyst with years of experience delivering AI-powered business intelligence solutions. Specializes in predictive modeling, customer segmentation, and marketing analytics using Python, R, and SQL. Skilled in applying machine learning algorithms to uncover trends and optimize campaign performance. Proficient in building scalable data pipelines and intuitive dashboards with Tableau and Power BI. Proven ability to translate complex data into actionable insights, driving strategic decisions across cross-functional teams.

EDUCATION

Master of Science in Data Science, *GPA: 3.8/4.0*   May 2025
 The George Washington University, Washington, D.C.

Bachelor of Technology in Information Technology   May 2022
 Maharaja Agrasen Institute of Technology, India.

SKILLS

Languages: Python, R, SQL, Bash
Data Engineering: Data Warehousing, ETL Pipelines, SQL/NoSQL Databases, Data Architecture, Snowflake, Databricks
AI & Machine Learning: Scikit-learn, TensorFlow, PyTorch, XGBoost, Predictive Modeling, Clustering, Classification, Feature Engineering, Hyperparameter Tuning, Anomaly Detection
Analytics & Statistical Methods: A/B Testing, Hypothesis Testing, Forecasting, Regression Analysis, Marketing Performance Analytics, Customer Segmentation
Data Visualization & BI: Tableau, Power BI, Matplotlib, Seaborn, Excel (Pivot Tables, Power Pivot, Advanced Formulas)
Collaboration & Communication: Business Insight Generation, Stakeholder Engagement, Data Storytelling

EXPERIENCE

King's Ransom Group   January 2025 – Present
Data Scientist Intern – Healthcare Claims & Analytics

- Safely moved HIPAA-sensitive claims data to Snowflake using robust encryption and access controls, ensuring compliance and data integrity.
- Analyzed $34.5M in workers' compensation claims using Tableau and clinical pattern recognition, identifying $8M in high-risk claim patterns and delayed reimbursements across multiple provider networks.
- Built predictive models to forecast claim approvals, resolution times, and costs, supporting smarter, faster decision-making.
- Partnered with leadership and healthcare teams in biweekly meetings to align technical solutions with key business objectives.

George Washington University   September 2024 – Present
Data Science Assistant - Undergraduate and Graduate Instructor

- Taught Python, SQL, MongoDB, and R to 100+ students, integrating technical skills with real-world healthcare applications for timely project success.
- Guided a student team in developing an AI model to identify pediatric jaundice, merging machine learning with critical clinical insights.
- Optimized CUDA drivers for ML models, improving performance for healthcare research while ensuring ease of use for non-technical users.

Protiviti   June 2022 – July 2023
Software Engineer – Enterprise Data & AI Solutions

- Led the migration of over 2TB of enterprise data from Salesforce to Azure Data Factory using PySpark and Databricks, employing K-Means clustering to optimize data organization and storage.
- Developed a client segmentation model with K-Means clustering and XGBoost on Databricks (via PySpark MLlib) that saved over $10M in outreach expenses by enhancing targeted engagement.
- Improved retention forecasting for 10,000+ at-risk accounts by creating a predictive analytics pipeline using Azure Machine Learning, AutoML, and MLflow, enabling proactive client engagement.

PROJECTS

[Synpro Data Synthesizer – GAN-based Healthcare Model](#)
OpenSource Project

- Developed a GAN-based data synthesizer to generate privacy-preserving synthetic patient records, replicating complex clinical data patterns without exposing PHI.
- Enabled AI model development in data-scarce environments and supported synthetic control arm generation for early-phase clinical trials, reducing time and cost by avoiding real patient enrollment.
- Facilitated EHR data augmentation for hospital partners to improve model robustness in predicting readmission risks and adverse drug events, accelerating deployment in clinical decision support tools.

[Pharmacovigilance Data Analysis](#)
Personal Project

- Analyzed multi-table pharmacovigilance datasets including patient demographics, drug regimens, outcomes, and indications to uncover adverse event patterns across treatment histories.
- Built a relational mapping across six datasets (e.g., drug role, route, dosage, and clinical outcomes) using Python, mongoDB and Neo4j to link adverse reactions like death and hospitalization to drug interactions.
- Identified temporal relationships between drug usage periods and reported adverse effects, enabling timeline-based insights into drug safety and early signal detection.