

AKHIL UDAY DEVAYANI

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PROFESSIONAL SUMMARY

- Analytical and detail-oriented AML Analyst with 5+ years of experience in transaction monitoring, sanctions screening, and compliance analytics across large-scale financial systems.
- Skilled in using SQL, Python, Power BI, and AWS to automate data pipelines, optimize fraud detection models, and enhance BSA/AML and KYC workflows.
- Proven track record of improving alert accuracy, reducing false positives, and supporting SAR reporting, sanctions compliance, and risk model validation aligned with FinCEN, FATF, OFAC, and global regulatory standards.
- Adept at bridging compliance and data analytics to strengthen internal controls, enable proactive risk mitigation, and drive data-driven decision making within financial crime programs.

TECHNICAL SKILLS

Regulatory & Risk Frameworks: BSA/AML, KYC, CDD/EDD, FATF, FinCEN, OFAC, Sanctions Screening, SAR Reporting, ABAC, Anti-Bribery & Corruption, 5th EU AML Directive, Basel III, COSO ERM, ISO 31000, SOX Compliance

Compliance & Financial Crime Tools: Actimize, SAS AML, Oracle FCCM, NICE Actimize, Dow Jones Watchlist, LexisNexis Bridger Insight XG, World-Check One, CaseWare, Fiserv FRAML, FICO Tonbeller Siron, BAE NetReveal, Quantexa, Palantir Foundry

Data Analytics & Programming: Python (Pandas, NumPy, Matplotlib, Scikit-learn), SQL, R, Excel (VBA, Power Query, Macros), Power Automate, Shell Scripting

Visualization & Reporting: Power BI, Tableau, Qlik Sense, Looker Studio, Excel Dashboards, Alteryx, Talend

Databases & Big Data: MS SQL Server, PostgreSQL, Oracle DB, MySQL, MongoDB, Snowflake, Databricks, Apache Spark, PySpark

Cloud & Infrastructure: AWS (S3, Redshift, Glue, Athena), GCP (BigQuery, Data Proc), Azure (Synapse, Data Factory), Docker, Git, Airflow

Risk & Audit Analytics: RCA, Risk Scoring Models, Transaction Monitoring Rules Design, Fraud Pattern Analytics, Scenario Tuning, Alert Optimization, KPI/KRI Tracking

Project & Process Management: Agile Scrum, Lean Six Sigma, Kaizen, Business Process Mapping, Compliance Testing, Internal Audit Support, Regulatory Reporting

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant (Risk & Compliance Analytics)

Aug 2023 - Dec 2024

Cleveland State University | Cleveland, OH

- Delivered and co-facilitated graduate-level sessions on AML, fraud analytics, and compliance modeling, enabling students to apply SQL and Python in identifying transaction anomalies and strengthening risk interpretation skills across 50+ real-world case simulations.
- Designed SQL-based KYC and transaction monitoring frameworks to evaluate unusual fund flows and layering activities, which improved analytical accuracy and reduced false positive patterns in AML exercises by 28%.
- Streamlined compliance data workflows by developing automated validation and grading scripts in Python and Excel VBA, cutting administrative turnaround by 65% while ensuring consistency in regulatory dataset assessments.
- Created interactive Power BI dashboards to track sanctions matches, customer risk segmentation, and SAR trend analysis, transforming raw financial data into actionable insights that enhanced transparency in compliance research.
- Partnered with faculty researchers to implement ML-driven anomaly detection models using Scikit-learn, improving early identification of fraud typologies and boosting predictive performance in transaction analysis projects by 35%.
- Executed sanctions screening simulations integrating OFAC, EU, and FATF datasets, applying fuzzy matching logic and watchlist harmonization techniques to enhance precision and regulatory consistency in academic compliance experiments.
- Authored and maintained BSA- and FinCEN-aligned documentation outlining AML methodologies, SAR drafting templates, and risk evaluation frameworks, ensuring research deliverables adhered to global compliance standards.
- Mentored over 50 graduate students on data-driven compliance analytics, guiding them in the end-to-end process of alert validation, risk scoring, and regulatory reporting to improve decision-making accuracy in simulated AML scenarios.

AML Analyst

Oct 2018 - Dec 2022

Amazon - Alexa Data Services | Hyderabad, India

- Investigated large-scale transactional and behavioral datasets using SQL and Python to detect suspicious layering, structuring, and circular fund flows, which strengthened AML detection precision by 34% and enhanced fraud escalation accuracy.
- Built and optimized data ingestion pipelines across AWS S3 and Redshift, improving data integrity for transaction monitoring systems and reducing latency in risk model refresh cycles by 40%.
- Designed interactive Power BI dashboards that visualized SAR volumes, sanctions exposure, and entity linkages, helping compliance managers identify risk clusters faster and prioritize high-value investigations.
- Collaborated with Global Risk and Compliance teams to recalibrate alert thresholds and fine-tune model rules, which reduced false-positive alerts by 27% while maintaining sensitivity to emerging typologies.
- Streamlined repetitive screening activities by automating risk scoring workflows with Python, Excel VBA, and Power Automate—cutting manual review time per case from 30 minutes to under 5 and enabling faster triage.

- Conducted root cause analyses (RCA) on investigation discrepancies and data quality gaps, implementing control enhancements that improved audit transparency and reduced compliance reporting exceptions by 25%.
- Enhanced sanctions and PEP screening accuracy by integrating OFAC, FATF, and Dow Jones Watchlist data into internal case review processes, ensuring robust adherence to BSA and global AML regulations.
- Mentored new analysts on alert investigation techniques, narrative writing, and risk documentation standards, improving SAR quality, case-handling efficiency, and SLA compliance across multiple review cycles.

PROJECTS

AML Transaction Monitoring & Suspicious Activity Detection

- Engineered an automated transaction monitoring pipeline using Python (Pandas), SQL, and scheduled Airflow jobs to ingest and normalize multi-source transactions, producing SAR-ready case bundles that cut analyst preparation time by 45%.
- Integrated OFAC, EU sanctions, and PEP lists via API and implemented fuzzy matching with Python to surface true matches for escalation, improving sanctions match precision in tests by 38%.
- Applied ML anomaly detection (Isolation Forest, DBSCAN) and rule-based scoring to prioritize alerts, then exposed results in Power BI dashboards so investigators could triage high-risk events faster and increase true positive detection by 42%.

Fraud Risk Analytics Dashboard

- Consolidated payments, KYC, and event logs into a unified Redshift schema with incremental SQL transforms, enabling near real-time ingestion from internal APIs and reducing data latency for investigations by 60%.
- Constructed interactive Power BI visualizations that combined alert volumes, case status, and entity linkages to surface fraud clusters, which helped reduce case backlog by 35% through faster prioritization.
- Automated weekly KPI and exception reports with Python scripts and Power Automate to notify compliance leads of emerging trends, improving SLA adherence and investigator focus on high-severity cases.

Kaizen Project - Workflow Optimization for Editorial Risk Control

- Built an AutoHotKey-driven review assistant to standardize document tagging and escalation logging, which sped up compliance reviews and reduced manual handoffs by 40%.
- Implemented audit-trail capture and export routines that fed a central CSV audit store, enabling traceable reviewer actions for later verification and strengthening internal audit readiness.
- Created a lightweight Power BI tracker to monitor review queues and KPIs, enabling managers to rebalance workloads dynamically and improve first-pass clearance rates.

EDUCATION

Master of Computer and Information Science
Cleveland State University | Cleveland, OH

Jan 2023 - Dec 2024

Bachelor of Engineering in Computer Science
Institute of Aeronautical Engineering | Hyderabad, India

Aug 2014 - May 2018

CERTIFICATIONS & ACHIEVEMENTS

- Google Data Analytics Professional Certificate - **Coursera**
- Anti-Money Laundering and Financial Crime Fundamentals - **LinkedIn Learning**
- Risk Management Principles and Practices (ISO 31000 & COSO ERM) - **Coursera**
- Data-Driven Decision Making for Financial Risk - **DataCamp**
- SQL for Data Analysis and Reporting - **Coursera**
- Compliance Management and Regulatory Frameworks - **LinkedIn Learning**
- Awarded “**Going the Extra Mile**” for automating compliance data workflows using Python and VBA, which reduced manual reporting effort by 40% and improved audit traceability.
- Commended by **Regional Operations Director** for developing a compliance performance tracker in Power BI, enhancing monitoring visibility and decision-making efficiency across teams.
- Honored with **Superstar Awards (4x)** for driving process optimization, improving data accuracy in AML reports, and strengthening model validation reliability.
- Received the **Shotgun Award (2020)** for implementing data-driven workflow controls that minimized operational risk exposure and improved compliance review efficiency.