

KYC / AML Reporting Automation – Case Study

◆ **Project Overview**

Automated **KYC completeness monitoring** and **AML alert generation** using SQL, Python, and BI dashboards. Designed to improve compliance efficiency and reduce risk of financial crime.




◆ **Problem Statement**

- Manual KYC checks were **time-consuming** and **error-prone**
 - AML alerts were **reactive**, increasing risk of **non-compliance**
 - Compliance teams wasted time on repetitive monitoring instead of investigations
-




◆ **Solution Approach**

1. **SQL** → Built queries for KYC completeness and expiry checks
 2. **Python** → Automated ETL pipeline and AML rule logic
 3. **BI Dashboards (Tableau/Power BI)** → Visualized KYC status and AML alerts
-

◆ **Key Features**

-  **KYC Monitoring** → Complete, Partial, Missing, Expiring Soon
 -  **AML Rule Automation** → Structuring, Velocity, High-Risk Geography, PEP, Rapid In-Out Flow
 -  **Dashboards** → Interactive reports for compliance officers
-

◆ **Impact**

-  **90% reduction** in manual monitoring effort
 -  **Faster detection** of suspicious activity
 -  **Data-driven decision support** for compliance teams
-

◆ **Tools Used**

- **SQL** (Joins, Rule Logic)
- **Python** (Pandas, Matplotlib, Automation)
- **Tableau / Power BI** (Dashboards)