

Crypto Transaction Pattern Analysis for AML Compliance

This dashboard presents an analysis of cryptocurrency transaction patterns to support Anti-Money Laundering (AML) compliance. Use the sidebar for navigation and :

Anomaly Detection

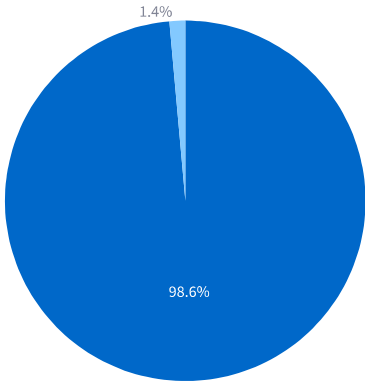
Multiple anomaly detection models available: isolation_forest, Isolation_Forest, Local_Outlier_Factor, One-Class_SVM, Ensemble_(Majority)

Select anomaly detection model to view

Ensemble (Majority)

Normal vs Anomalous User Distribution - Ensemble (Majority)

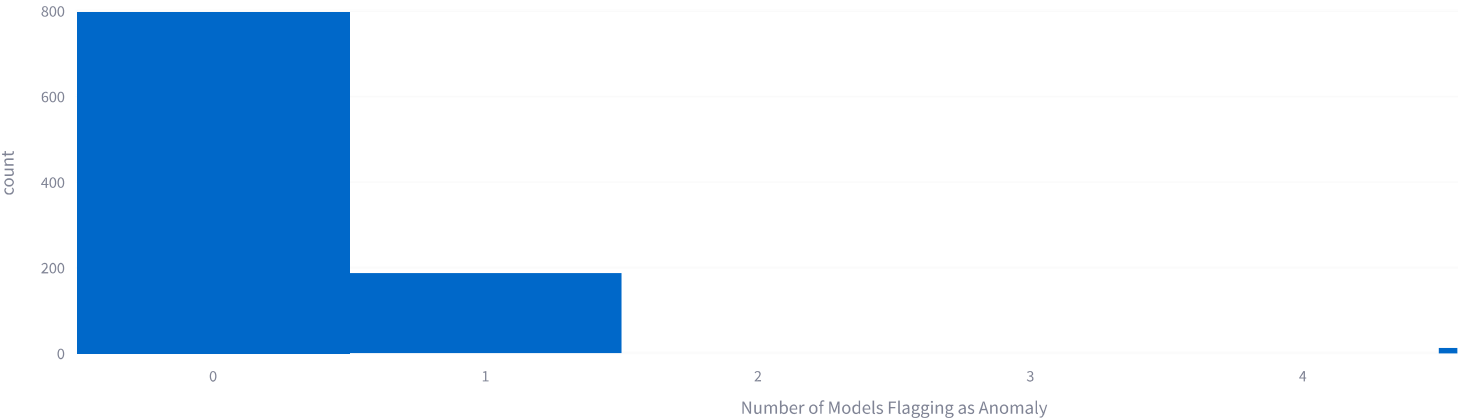
Normal vs Anomalous Users - Ensemble (Majority)



Anomaly Visualization - Ensemble (Majority)

Model Agreement Analysis

Distribution of Model Agreement



High Confidence Anomalies

Users flagged as anomalous by all models:

	user_id	transaction_count	first_transaction	last_transaction	label_<lambda>	kyc_level_first	activity_timespan_days	tx_per_day	is_anomaly_isolat
42	user_000042	816	2024-04-07 01:01:09	2024-04-07 01:01:09	225	intermediate	1	816	
54	user_000054	816	2024-04-07 01:01:09	2024-04-07 01:01:09	209	intermediate	1	816	
77	user_000077	816	2024-04-14 01:01:09	2024-04-14 01:01:09	213	intermediate	1	816	
83	user_000083	816	2024-04-07 01:01:09	2024-04-07 01:01:09	225	intermediate	1	816	
122	user_000122	816	2024-04-07 01:01:09	2024-04-07 01:01:09	224	intermediate	1	816	
181	user_000181	816	2024-04-07 01:01:09	2024-04-07 01:01:09	213	advanced	1	816	
197	user_000197	816	2024-04-07 01:01:09	2024-04-07 01:01:09	200	basic	1	816	
222	user_000222	816	2024-04-14 01:01:09	2024-04-14 01:01:09	190	basic	1	816	
345	user_000345	816	2024-04-14 01:01:09	2024-04-14 01:01:09	199	intermediate	1	816	
546	user_000546	816	2024-04-14 01:01:09	2024-04-14 01:01:09	178	intermediate	1	816	

Suspicious Users

	user_id	transaction_count	first_transaction	last_transaction	label_<lambda>	kyc_level_first	activity_timespan_days	tx_per_day	is_anomaly_isolat
42	user_000042	816	2024-04-07 01:01:09	2024-04-07 01:01:09	225	intermediate	1	816	
54	user_000054	816	2024-04-07 01:01:09	2024-04-07 01:01:09	209	intermediate	1	816	
77	user_000077	816	2024-04-14 01:01:09	2024-04-14 01:01:09	213	intermediate	1	816	
83	user_000083	816	2024-04-07 01:01:09	2024-04-07 01:01:09	225	intermediate	1	816	
122	user_000122	816	2024-04-07 01:01:09	2024-04-07 01:01:09	224	intermediate	1	816	
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197	user_000197	816	2024-04-07 01:01:09	2024-04-07 01:01:09	200	basic	1	816	
222	user_000222	816	2024-04-14 01:01:09	2024-04-14 01:01:09	190	basic	1	816	
345	user_000345	816	2024-04-14 01:01:09	2024-04-14 01:01:09	199	intermediate	1	816	
546	user_000546	816	2024-04-14 01:01:09	2024-04-14 01:01:09	178	intermediate	1	816	

Download Suspicious Users Data

Created as part of a data analysis portfolio for the AML Compliance case study on a crypto platform.