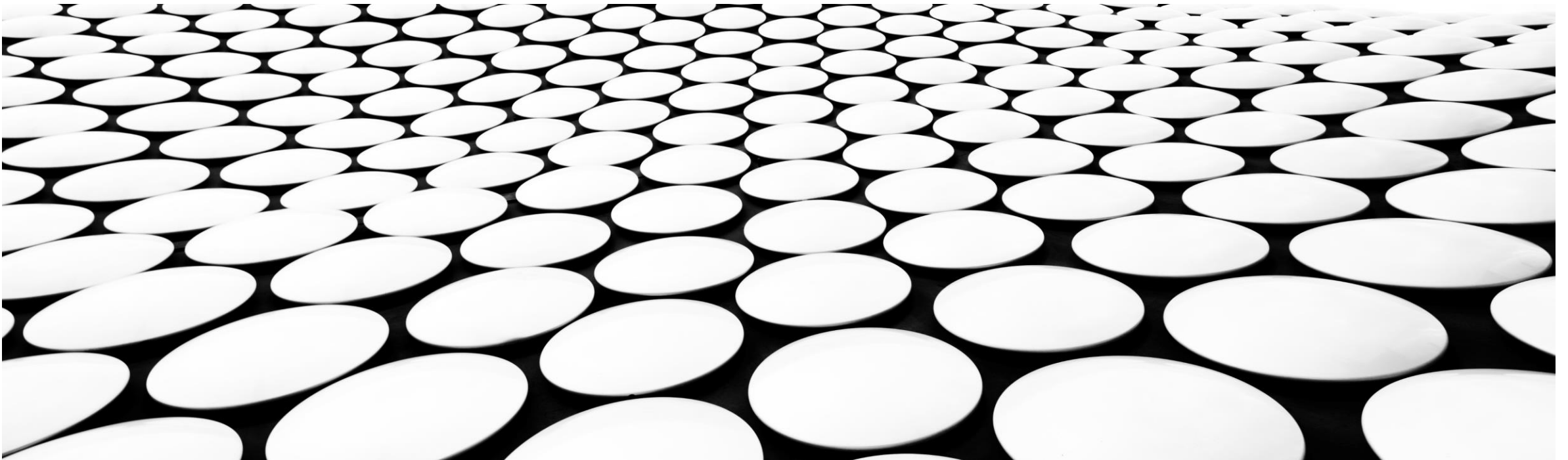


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# APPLYING AI/ML TO DETECT FINANCIAL CRIMES

SATEESH KUMAR CHALLA



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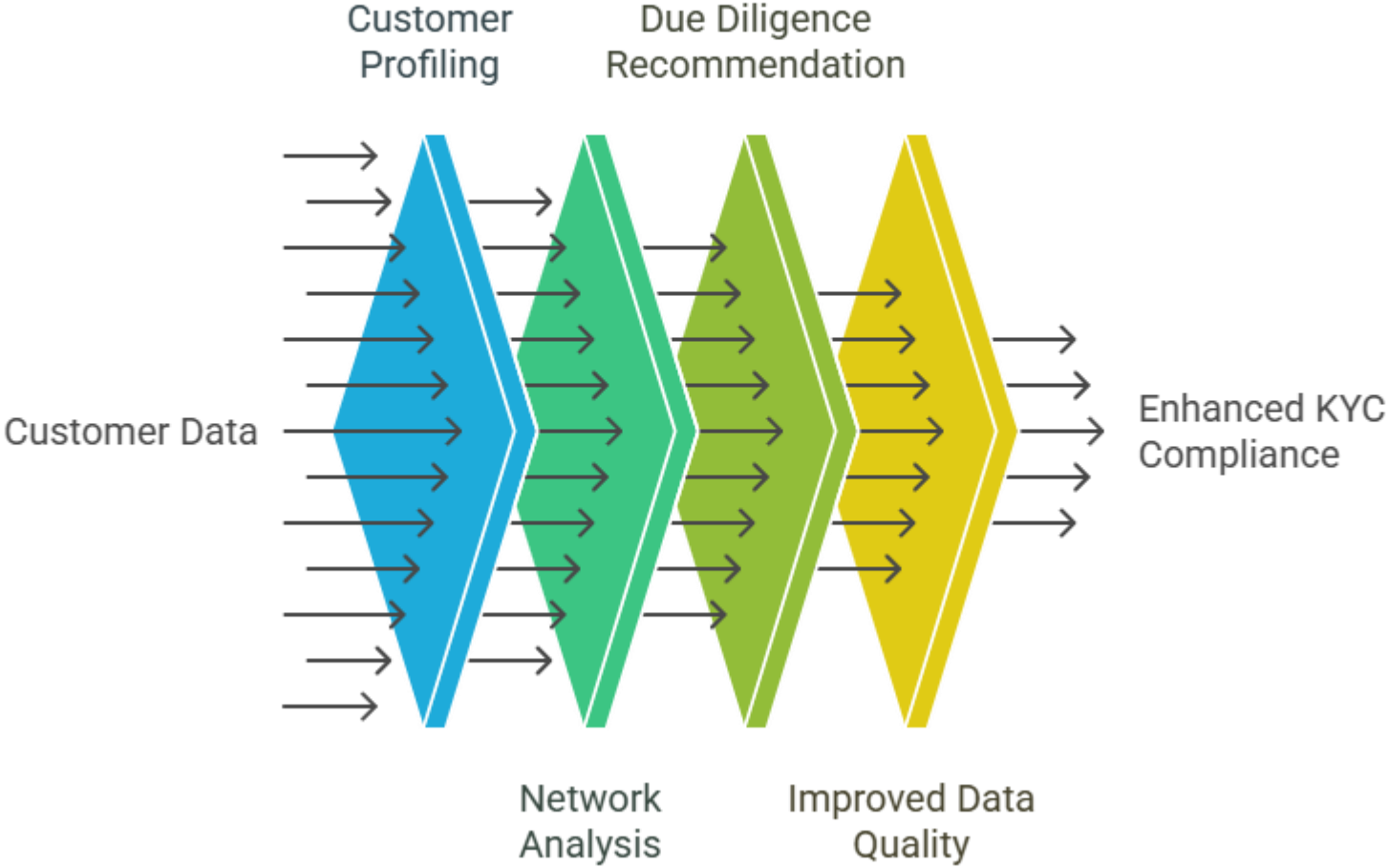
# FINANCIAL CRIMES RISK TAXONOMIES

Strengthening Financial Crime Risk Management Through Key Compliance Pillars



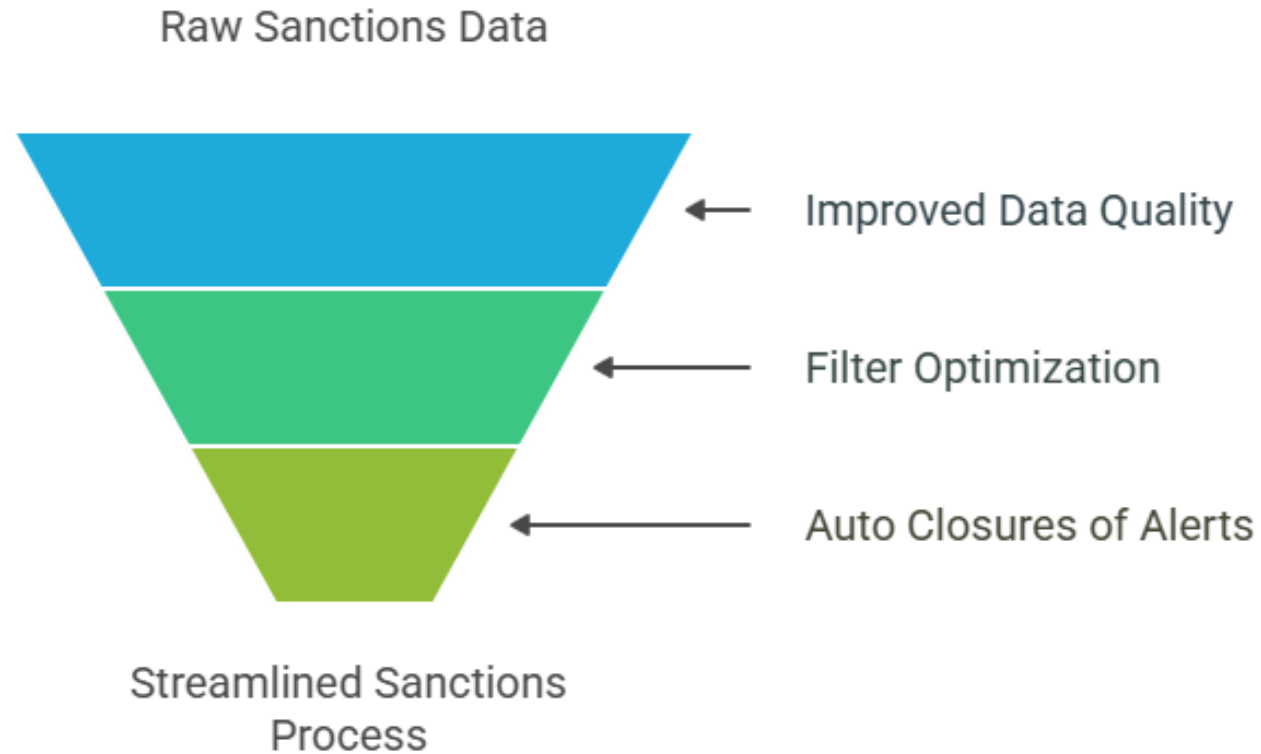
# KYC AI USE CASES

## Enhancing KYC Processes with AI



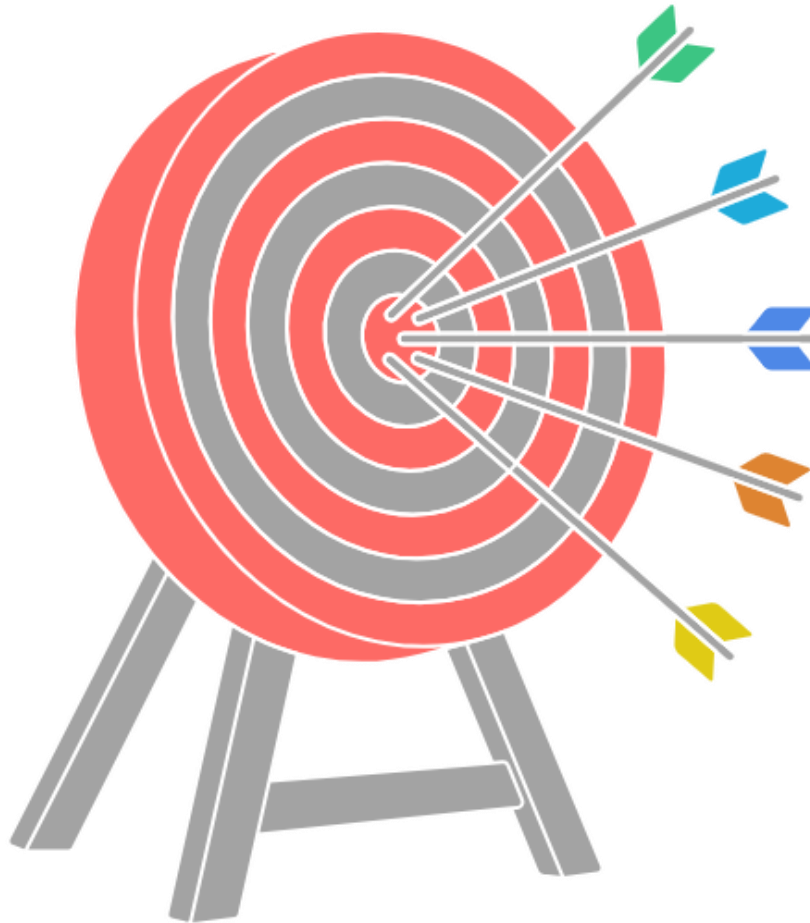
# SANCTIONS AI USE CASES

## Enhancing Sanctions Compliance with AI



# ANTI MONEY LAUNDERING (AML) – MACHINE LEARNING USE CASES

## Machine Learning in Anti-Money Laundering



### False Positive Reduction

Enhances alert accuracy



### Anomaly Detection

Identifies unusual transaction patterns



### Transaction Segmentation

Classifies transactions into categories



### Red Flags Detection

Highlights suspicious transaction indicators



### Threshold Recommendation

Establishes risk indicator benchmarks

# AML PRE DETECTION AI USE CASES

## Transaction Data Refinement Process



### Data Normalization

Standardizes data for consistency



### Country Derivation

resolves accurate country code



### Entity Resolution

consolidates data for accuracy



### Customer Segmentation

Groups customers by activity

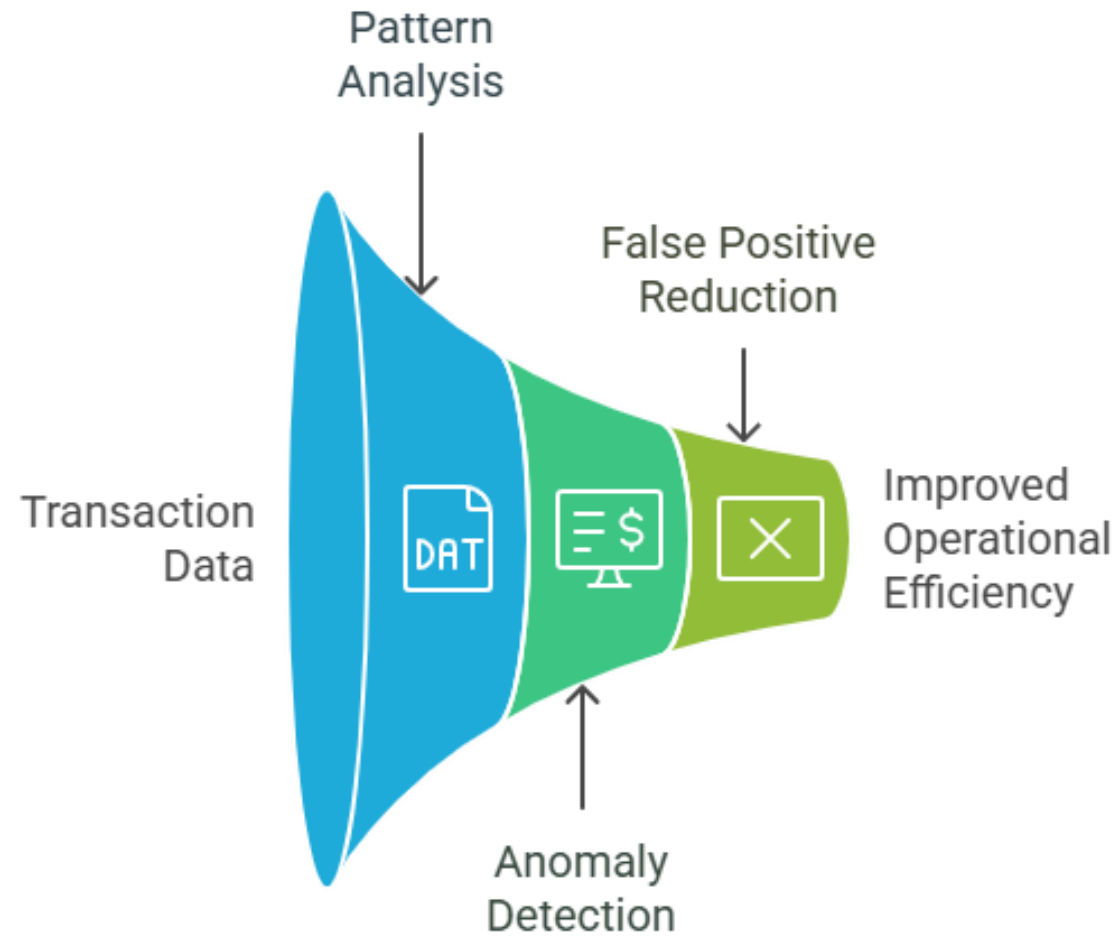


### External Entity Segmentation

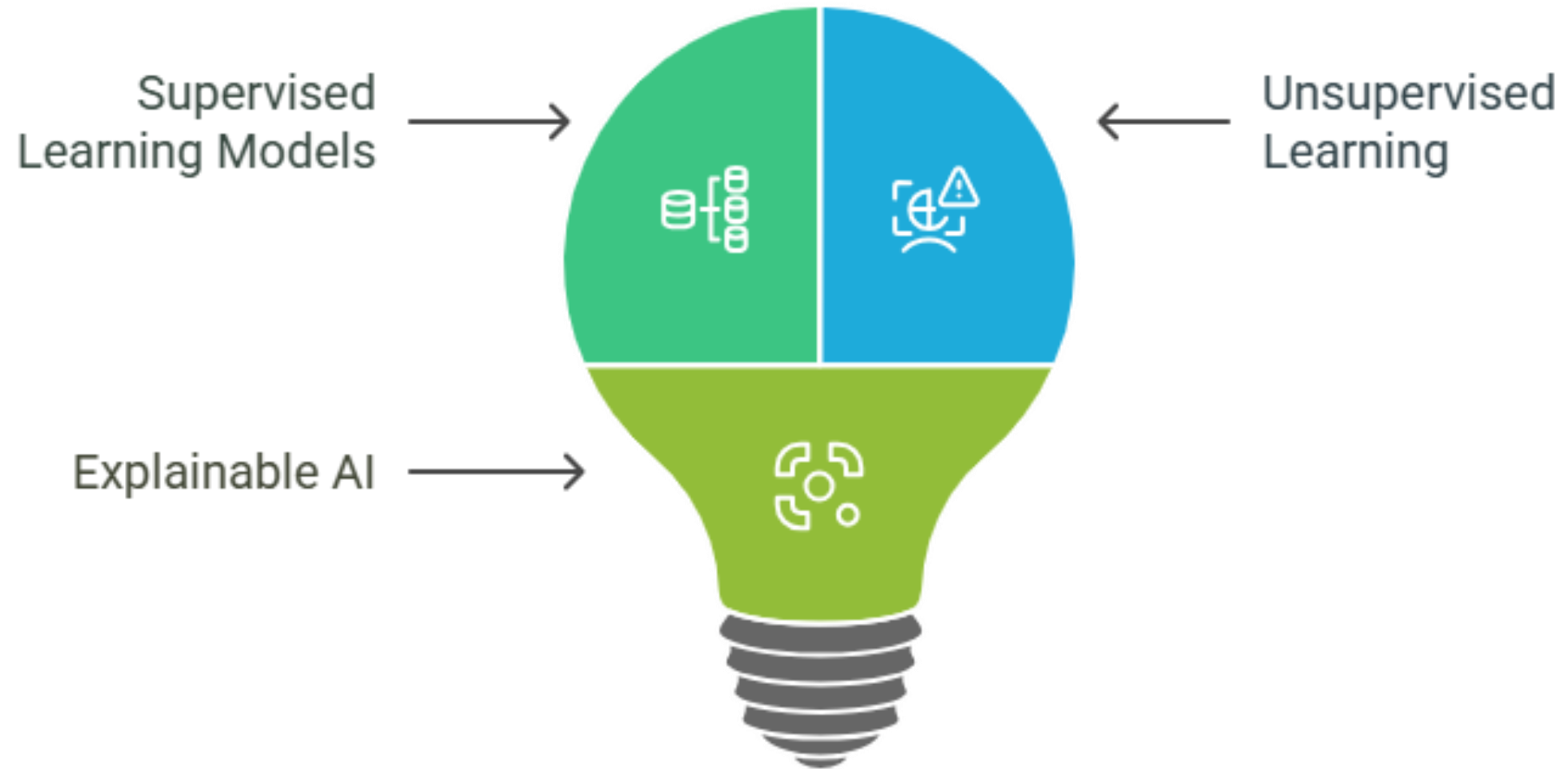
Segments external entities by activity

# AML POST DETECTION AI USE CASES

## False Positive Reduction Funnel



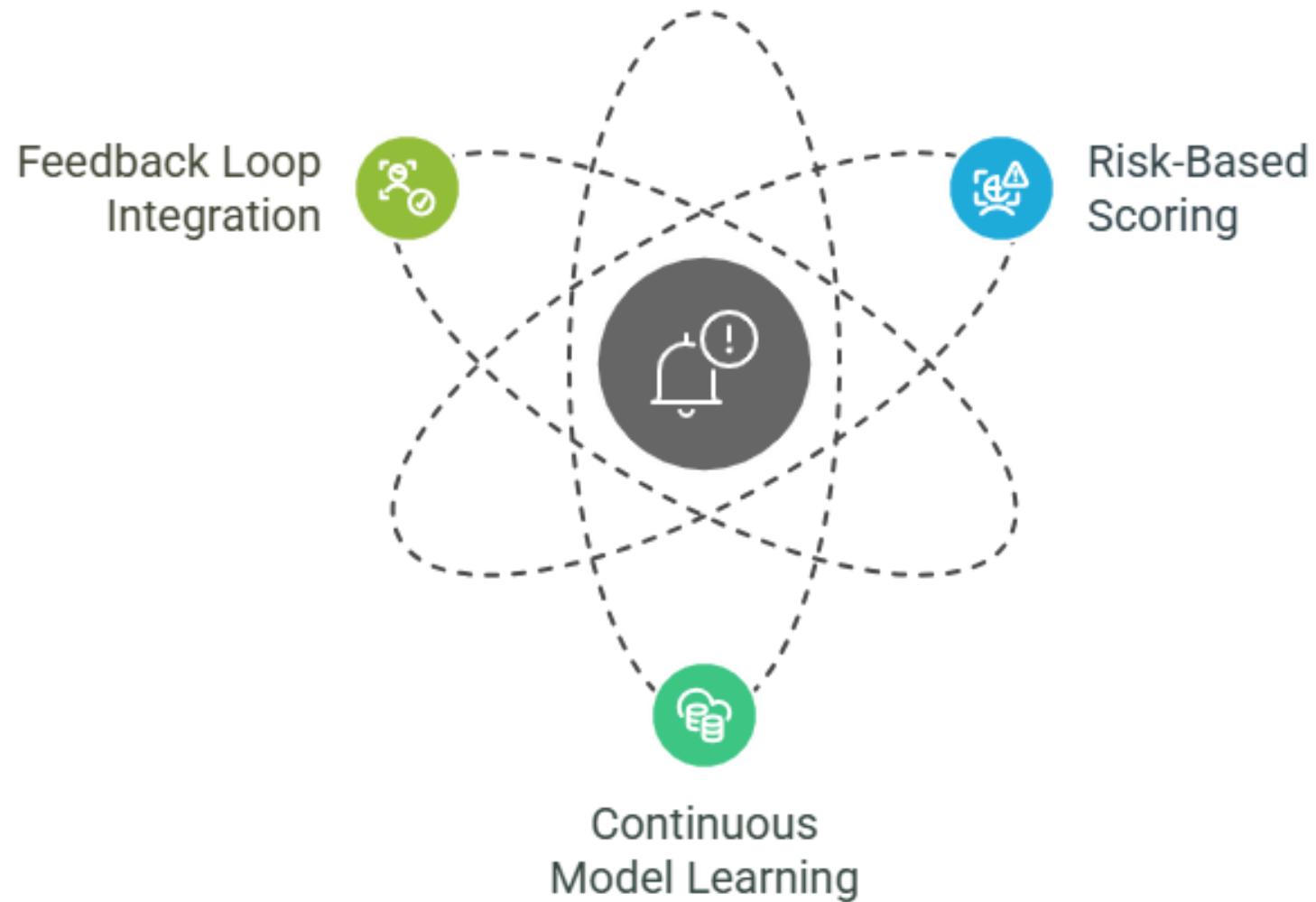
## AI Techniques for False Positive Detection





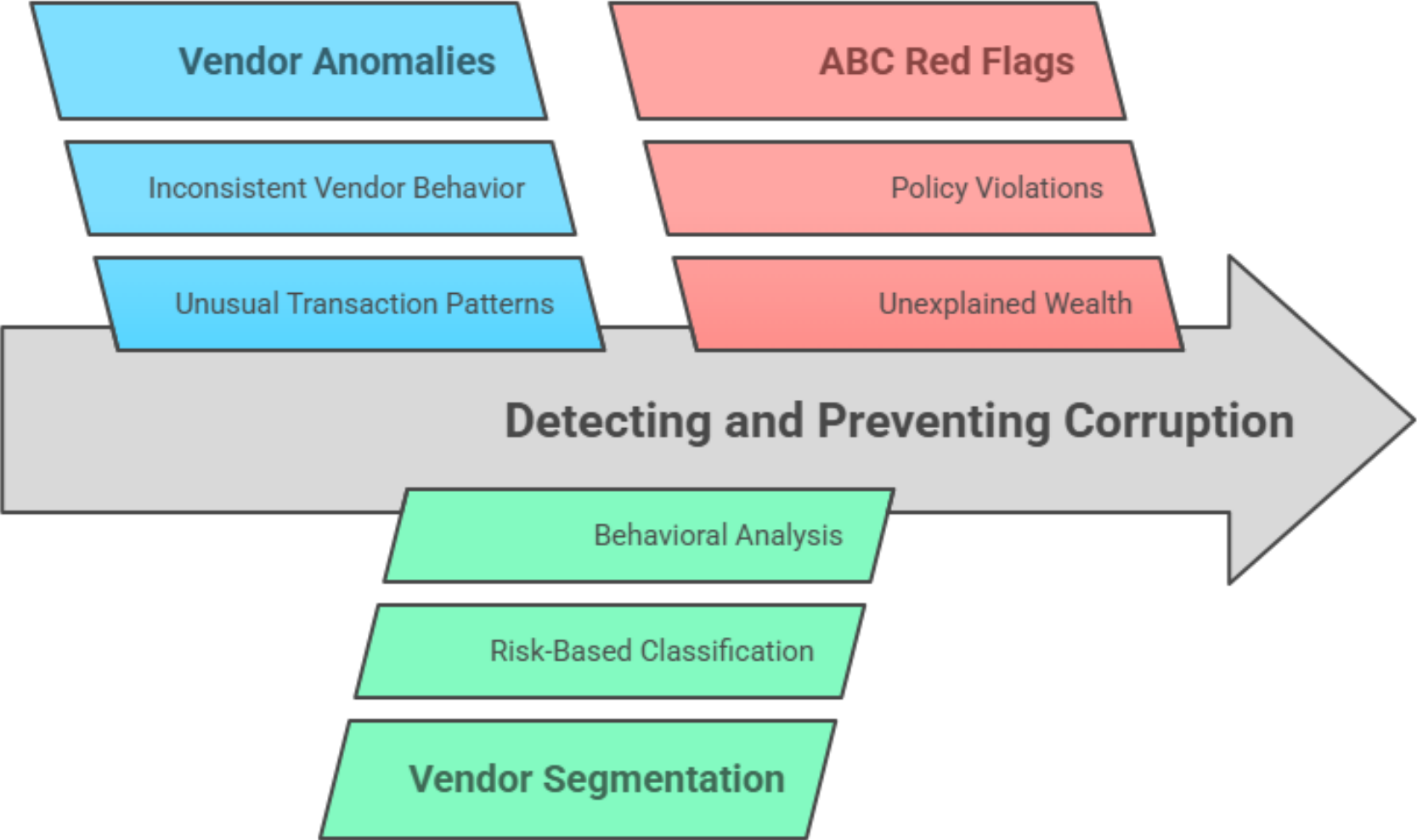
# AML POST DETECTION AI USE CASES

Enhancing Financial Crime Detection with AI

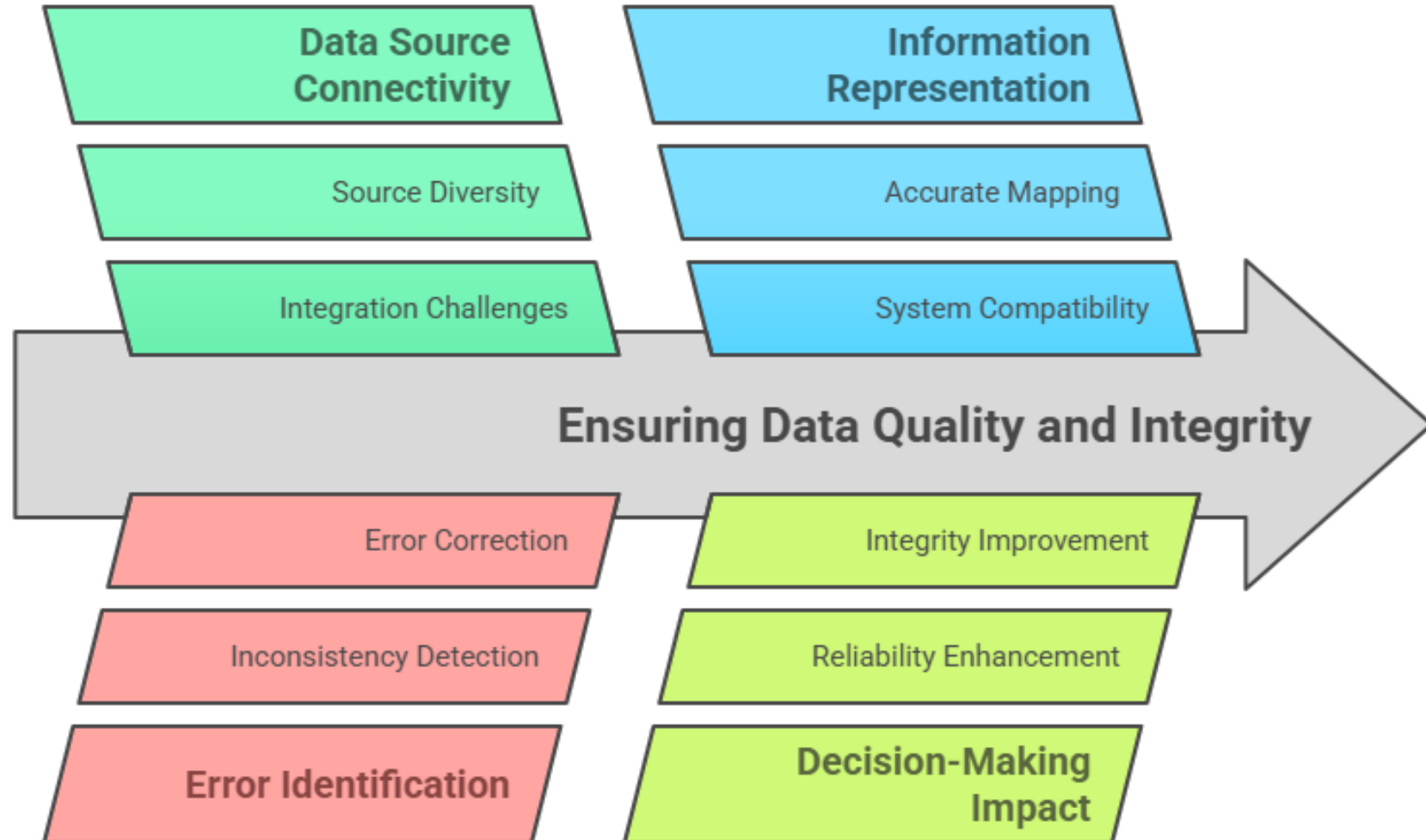


# ANTI BRIBERY & CORRUPTION AI USE CASES

## AI in Anti-Bribery and Corruption



## Enhancing Data Quality through Effective Data Mapping





**THANK YOU**