1. Transaction_Amount should always match Reported_Amount, except when the transaction involves cross-currency conversions, in which case a permissible deviation of up to 1% is allowed.
2. Account_Balance should never be negative, except in cases of overdraft accounts explicitly marked with an "OD" flag.
3. Currency should be valid ISO 4217 currency code, and the transaction must adhere to cross-border transaction limits as pe regulatory guidelines.
4. Country should be an accepted jurisdiction based on bank regulations, and cross-border transactions should include mandatory transaction remarks if the amount exceeds $10,000.
5. Transaction_Date should not be in the future, and transaction older than 365 days should trigger a data validation alert.
6. High-risk transaction (amount > $5000 in high-risk countries) should be flagged, with an automatic compliance check triggered.
7. Round-number transactions (e.g., $1000, $5000) should be analysed for potential money laundering risks, required additional validation steps.
8. A dynamic risk scoring system should be implemented, adjusting scores based on transaction patterns and historical violations.
9. The model should suggest remediation actions for flagged transactions, including adjustments, explanations and recommended compliance steps.