Tookitaki
Reconciliation Suite

The most advanced machine learning powered reconciliation solution for automated matching and exception management

- Build by design to complement existing reconciliation platforms for faster time to value
- Rapid and seamless onboarding of matching
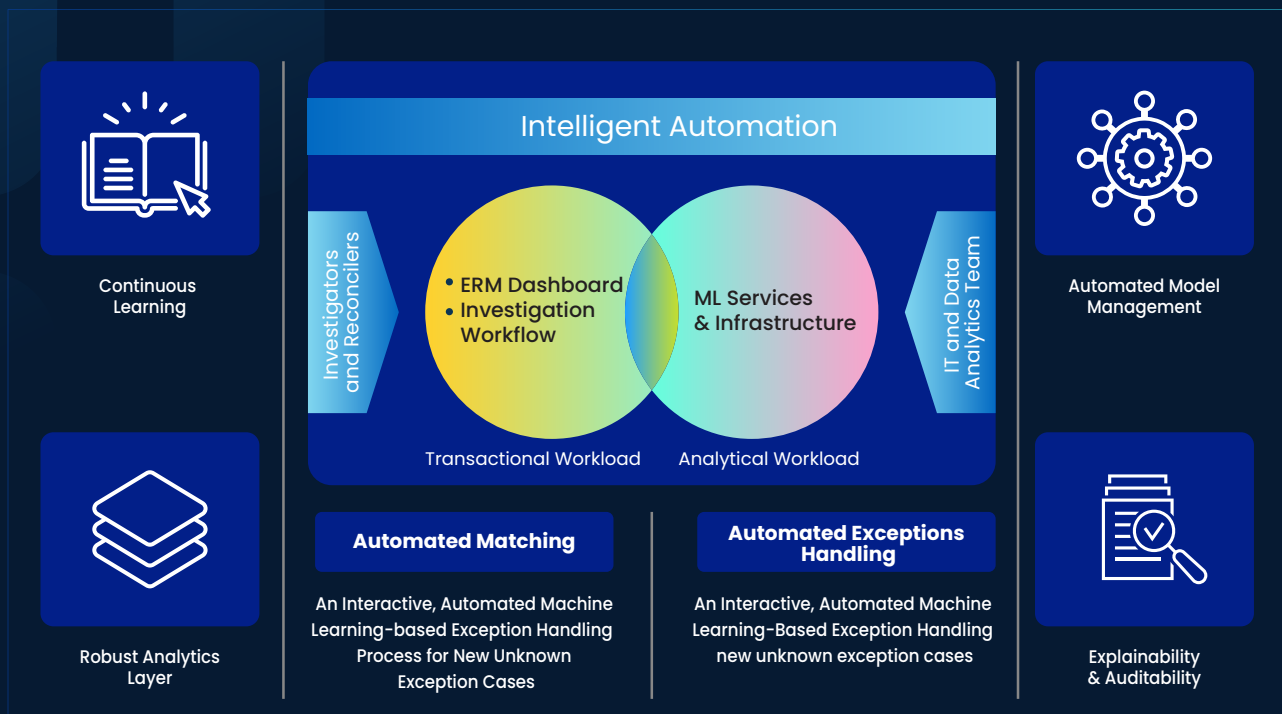- Predictive break management for higher efficiency

Tookitaki

www.tookitaki.ai

Overview
of Tookitaki Reconciliation Suite

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Tookitaki provides the most advanced machine learning-powered end-to-end reconciliation analytics platform that unlocks efficiency gains and effectiveness in every reconciliation process

Continuous Learning

Robust Analytics Layer

Intelligent Automation

Investigators and Reconcilers

- ERM Dashboard
- Investigation Workflow

ML Services & Infrastructure

IT and Data Analytics Team

Transactional Workload   Analytical Workload

Automated Matching

An Interactive, Automated Machine Learning-based Exception Handling Process for New Unknown Exception Cases

Automated Exceptions Handling

An Interactive, Automated Machine Learning-Based Exception Handling new unknown exception cases

Automated Model Management

Explainability & Auditability

Tookitaki Reconciliation Suite offers automated matching and exceptions handling workflows as separate modules.

Automated Matching Engine completely automates the matching process in a reliable, scalable, and sustainable manner that is beyond the scope of existing reconciliation solutions. Our software can take up large volumes of data additions, do the necessary clean-up & enrichment to produce better matching results. RS can connect to almost all data sources & can handle complex match cases (one-to-one, one-to-many, many-to-many). It is targeted to generate over 90% match rates through automated pattern detection.

Automated Exceptions Handling Engine leverages semi-supervised learning to understand & learn from previous reconciliation cases and then predict both known & unknown exception cases without human intervention. It resolves exceptions by improving break classification according to clients' requirements and automatically builds exceptions models from historical data. RS is targeted to reduce exception investigation & resolution time by 50-75% and achieve over 95% accuracy in exception detection & adjustment amount prediction.

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Modernize and automate reconciliations with Tookitaki Reconciliation Suite

Advanced pattern detection

State-of-the-art semi-supervised approach, which uses a combination of supervised and unsupervised algorithms, helps to tackle cases around data unavailability and detection of complex reconciliation patterns.

Outcome explanations

Machine learning algorithms are no longer blackboxes; our in-built audit module has made them glassboxes. We bring algorithmic transparency by providing simple viewable explanations.

Automated, continuous learning

Our advanced self-learning algorithm incorporates incremental changes in data and updates existing models using prebuilt champion-challenger framework, sustaining engine efficacy and providing robust coverage with changing times.

Complete audit trail

RS provides a complete audit trail to support recommendations on adjustment amount. Our predictions and recommendations dramatically improve investigation efforts by 50-75%.
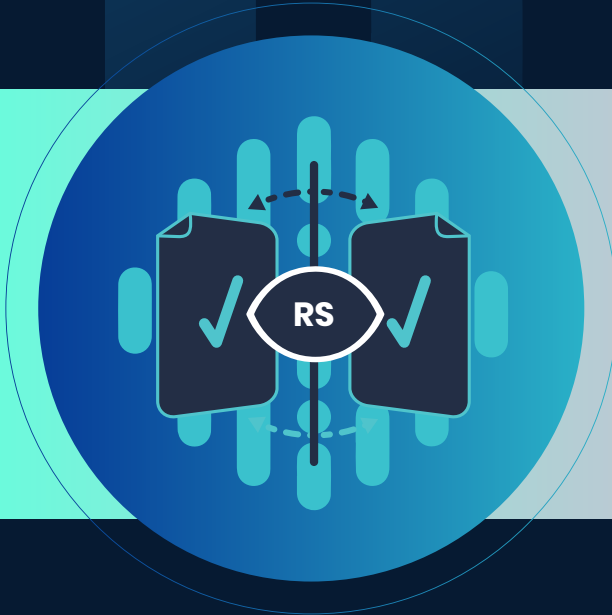
Easy integration

There is no need to "rip & replace" existing systems. RS is built on a Big Data stack, Hadoop and Spark and it naturally provides REST APIs, enabling easy integration to upstream & downstream systems.

Wider Business Applications, Same Robustness

Accounts Receivable Matchig invoices to paments	**Balance Sheet**	**Core Banking** G/L, ATM & Teller Cash, Due From-Due To, Mortgage and Loans
Cash & Securities	**Finance GL**	**Inter-Company**
Net Asset Value (NAV)	**Positions & Holding** FX, Stocks, Bonds, Derivatives, Intercompany Balances, Front Office, Back-Office, Custodian Activity	**POS & Retail** POS, Merchant, Gateway, Supplier, Currency, Chargebacks
Trade Trade & Position	**Treasury** Mark-to-Market, Treasury Tools	**Credit Cards**

![Tookitaki logo]

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Unlock Greater Values

Reduced Operational Costs

- Reduction in manual effort dedicated to reconciling complex product breaks
- Auto closure without manual intervention for frequently occurring breaks
- Efficient data management

Scalable AI-Based Model Architecture

- Scalable, automated model management framework
- Ability to automatically create models independent of data and use case
- User-driven learning leading to continuous match improvement

Faster Onboarding, Easy to Scale

- Fast and easy client onboarding and configuration setting
- Standardised reconciliation tool and framework
- Greater scalability, streamlined reconciliation processes

Greater Accuracy

- Compared to legacy systems, our reconciliation solution generates ~90% match rates through automated pattern detection.
- For Exceptions, it can accurately predict known and unknown beaks more than 95% accuracy

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