



Suhas Bhairav

AI Fixed Asset Depreciation Register Audit

Automate cross-checks between hardware acquisitions and depreciation schedules with AI.

AI-guided reconciliation between asset purchases and depreciation records with auditable steps.

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Automate asset intake to depreciation alignment

Implement an AI-assisted workflow to validate new hardware purchases against local depreciation tables. The guide distinguishes automated data processing from human-reviewed decisions and outlines required data and tools.

Key move Start with a pilot on 5-10 assets; measure dispute rate weekly

PRACTICAL CHECKLIST

- 01** Ingest acquisitions feed from ERP or procurement system into a standardized asset JSON schema.
- 02** Map each asset to the local depreciation table using an AI classifier.
- 03** Match asset details to depreciation rules via AI scoring, with confidence thresholds.
- 04** Flag mismatches for human review when thresholds are uncertain.
- 05** Store audit-ready evidence: asset line-item, depreciation code, expected vs actual.
- 06** Retain a human-in-the-loop approval for new asset cash-imputation.
- 07** Define ownership and SLAs for ongoing checks.

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Data, Tools, and Governance

Identify required data fields, sources, and tooling for asset depreciation reconciliation. Establish governance, data quality checks, and approvals.

Key move **Prototype weekly with a single asset domain, compare results to manual ledger**

PRACTICAL CHECKLIST

- 01** Required data: asset ID, purchase date, cost, depreciation method, tax life, and local table.
- 02** Data sources: ERP, procurement, asset registry, depreciation schedules, and chart of accounts.
- 03** Tools: AI model for mapping and a lightweight rules engine for thresholds.
- 04** Automation scope: ingest purchases, produce depreciation alignment, flag anomalies, and generate audit logs.
- 05** Human review: tax life variances, asset reclassification, and unusual disposals.
- 06** Data quality checks: match counts, ranges, and date formats weekly.

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Adoption, guardrails, metrics, and ownership

Outline a practical weekly adoption plan with clearly assigned owners. Include guardrails, approvals, and KPIs to measure progress.

Key move Maintain a policy requiring human sign-off for any depreciation reclassification.

PRACTICAL CHECKLIST

- 01** Week 1: map data sources, establish asset schema, and set roles.
- 02** Week 2: pilot AI mapping on 20 assets; verify matches manually.
- 03** Week 3: add automated discrepancy reports and audit trails.
- 04** Week 4: establish approvals, escalation paths, and weekly reviews.
- 05** Owner: Finance Systems Lead; Stewards: Asset Accounting, Compliance, IT.
- 06** KPIs: auto-match rate, number of manual interventions, closing cycle time.
- 07** Risks & guardrails: data gaps, misclassification, over-reliance on AI.

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ABOUT THE CREATOR

Suhas Bhairav

I build AI systems that combine distributed architecture, retrieval, knowledge graphs, security, and practical workflow design. My focus is AI that can be used repeatedly by real teams: understandable, reliable, and grounded in the work people already do.

EXPERTISE

- Principal systems architecture and applied AI engineering
- Production-grade AI systems, agentic workflows, RAG, and knowledge graphs
- Full-stack workflow applications across AWS, Google Cloud, Azure, on-premise, and hybrid environments
- Practical AI implementation patterns for automotive, manufacturing, finance, logistics, cybersecurity, sales, and customer operations
- Security, governance, observability, approvals, and failure-mode thinking for operational AI systems

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