



Suhas Bhairav

AI Workflow Bottleneck Analyzer

**Identify queues, rework, and capacity constraints
with AI-assisted workflows.**

A practical, step-by-step AI playbook to diagnose,
automate, and improve operational throughput.

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Identify Bottlenecks Across Workflows

Map core operations from intake to delivery. Example: in fulfillment, bottlenecks often occur between receiving, putaway, and outbound staging.

Key move Start with one end-to-end flow; fix bottlenecks before expanding scope.

PRACTICAL CHECKLIST

- 01** Document steps: who, what, when, and where delays occur in each process stage.
- 02** Record wait times between steps and approval cycles to spot queue buildup.
- 03** Log rework rates and root causes for common tasks.
- 04** Note data gaps and tool handoffs that disrupt flow.
- 05** Identify decision points requiring discretionary approvals and escalation rules.
- 06** Capture volume variability by time of day or week.
- 07** Map ownership: who is responsible for each step and SLA.

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What to Automate vs What to Human Review

Use a simple rubric to identify automation candidates: repetitive, rule-based, high-volume tasks in operations. Reserve human review for exceptions, judgment, and compliance checks.

Key move Pilot in a low-risk subprocess first; measure before scaling.

PRACTICAL CHECKLIST

01 Data needs: process logs, timestamps, user actions, and approval timestamps.

02 Automation targets: routing, triage, status updates, data entry.

03 AI agent workflows: use agents for decision prompts, with guardrails.

04 Human review points: exceptions, policy checks, regulatory compliance.

05 Governance: data privacy, retention, versioning, and audit trails.

06 Measurement: baseline speed, error rate, and adoption rate.

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Adoption Plan and Guardrails

Outline a 6-week adoption sprint with weekly experiments. Define ownership, approvals, and metrics before each pilot.

Key move Automate only with clear ownership, guardrails, and a rollback path.

PRACTICAL CHECKLIST

- 01** Week 1: map target process; choose a single bottleneck to test.
- 02** Week 2: pilot AI agent with a narrow task and defined success criteria.
- 03** Week 3: capture outcomes, collect feedback from operators.
- 04** Week 4: adjust guardrails, update escalation rules.
- 05** Week 5: measure impact on throughput, queue length, and rework rate.
- 06** Week 6: decide whether to expand, pause, or sunset the pilot.
- 07** Ownership: appoint a process owner and a data steward.

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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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