



Suhas Bhairav

AI Supplier Performance Scorecard Template

**A practical, AI-driven monthly scorecard for
supplier performance.**

Provide a repeatable, AI-assisted method to
synthesize delays, quality, and vendor reply speeds
into a single actionable scorecard.

Suhas Bhairav

suhasbhairav.com

Data inputs and scoring scope

This page defines the data sources and KPI scope for the monthly supplier scorecard. It explains what to automate vs. what to keep human-reviewed.

Key move Pilot with 2-3 suppliers for 4 weeks.

PRACTICAL CHECKLIST

- 01** Collect shipping delay logs from TMS and ERP exports.
- 02** Gather manufacturing quality checks with defect codes and pass/fail status.
- 03** Capture vendor reply times from CRM tickets and SLA logs.
- 04** Standardize formats, units, timestamps, and supplier IDs for consistency.
- 05** Enrich data with lead times, lot numbers, and order IDs.
- 06** Define data owners, access controls, and update schedules.
- 07** Validate data quality via spot checks and sample audits.

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What to automate, what to review, and required tools

Detail what to automate end-to-end and what requires human review. List data tools and AI agents that support the workflow.

Key move Approvals required for scorecard changes before publishing.

PRACTICAL CHECKLIST

- 01** Automate data ingestion with ETL pipelines from source systems.
- 02** Compute KPIs automatically: on-time rate, defect rate, and vendor response time.
- 03** Auto-generate monthly scorecards and visual dashboards.
- 04** Keep humans in the loop for exception handling and data quality reviews.
- 05** Set thresholds, flags, and escalation rules for issues.
- 06** Use AI agents (Claude or ChatGPT) to craft explanations and insights.
- 07** Store results in a secure, auditable data warehouse.

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Weekly adoption steps

Provide a practical, small-step plan to implement the scorecard in weekly increments. Start with data connections, then automation, then governance.

Key move Governance: ensure ownership, approvals, and data lineage.

PRACTICAL CHECKLIST

- 01** Week 1: Define KPIs and secure data access; map data sources.
- 02** Week 2: Build ETL for delays and quality data; test basic scoring.
- 03** Week 3: Add human-in-the-loop review and anomaly flags.
- 04** Week 4: Introduce AI agent to generate narrative scorecard insights.
- 05** Week 5: Create the monthly template and automated distribution list.
- 06** Week 6: Run pilot with 2-3 suppliers; collect feedback; adjust thresholds.

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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

WEBSITE

suhasbhairav.com

EMAIL

suhasbhairav@gmail.com