



Suhas Bhairav

AI Supplier Evaluation Scorecard

Practical framework for evaluating AI suppliers in procurement.

A practical, auditable scoring framework to evaluate and adopt AI suppliers.

Suhas Bhairav

suhasbhairav.com

Automation vs Review

Define what can be automated to speed comparisons and what needs human review. Gather the data and tools required to run the scorecard consistently.

Key move Start with 2 pilot suppliers to validate data pipelines and scoring logic

PRACTICAL CHECKLIST

- 01** Automate data collection from supplier questionnaires, contracts, and performance dashboards.
- 02** Automate scoring for capability, cost, implementation, reliability, compliance, security, support, scalability, and commercial risk.
- 03** Keep human review for strategic fit, risk perception, and vendor relationship considerations.
- 04** Centralize data in a shared procurement workspace with versioned templates.
- 05** Use AI agents to normalize data and flag anomalies for reviewer attention.
- 06** Define data quality thresholds and escalation paths for missing data.

Suhas Bhairav AI Resource

A practical, auditable scoring framework to evaluate and adopt AI suppliers.

The Evaluation Rubric

This page describes the scoring rubric and how to apply it during supplier comparisons. It lists data fields and ownership for accountability.

Key move Document owner and review cadence for every supplier evaluation run.

PRACTICAL CHECKLIST

- 01** Capability and AI readiness: product maturity, integration options, and roadmap alignment.
- 02** Cost and total cost of ownership: licenses, renewals, and discounts.
- 03** Implementation and time-to-value: deployment effort, data migration, and change management.
- 04** Reliability and support: uptime, SLAs, responsiveness, and onboarding help.
- 05** Compliance and security: privacy, data residency, encryption, attestations, and vendor risk controls.
- 06** Scalability and commercial risk: future growth, contract flexibility, and vendor financial health.

Suhas Bhairav AI Resource

A practical, auditable scoring framework to evaluate and adopt AI suppliers.

Weekly Rollout and Governance

Outline a practical weekly rollout plan with small actions. Include roles, approvals, and measurable outcomes.

Key move Keep a living glossary of terms and ensure data lineage is tracked.

PRACTICAL CHECKLIST

- 01** Week 1: define data sources, build templates, assign owner, and seed initial supplier data.
- 02** Week 2: pilot 2-3 suppliers, apply rubric, flag data gaps, and calibrate weights.
- 03** Week 3: automate data pulls for more suppliers, set thresholds, implement escalation rules.
- 04** Week 4: run full pilot, compare decisions with prior methods, document wins and risks.
- 05** Ongoing: establish a governance cadence—scorecard reviews, approvals, and sign-off for supplier changes.
- 06** Guardrails: require human override for high-risk decisions and document rationale.

Suhas Bhairav AI Resource

A practical, auditable scoring framework to evaluate and adopt AI suppliers.

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