



Suhas Bhairav

AI API Documentation Code Generator Setup

**Automate end-to-end API docs from code
endpoints using AI.**

Enable rapid, maintainable API docs generation with
AI while preserving accuracy and developer trust.

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suhasbhairav.com

What to Automate and Review

Define automation boundaries for API docs: endpoints, schemas, and examples. Establish human gates to preserve accuracy.

Key move Set a Docs Ready gate: machine draft requires human review before publish.

PRACTICAL CHECKLIST

- 01** Automatically discover endpoints from codebases, including path, method, and parameter signatures.
- 02** Generate initial doc sections: Overview, Endpoint, Request/Response examples, error codes.
- 03** Keep machine-generated drafts for internal review; publish only after human QC.
- 04** Attach usage details, authentication requirements, and versioning per endpoint.
- 05** Define acceptance criteria for automated docs; require authoring review before merge.
- 06** Decide data sources: code parser output, OpenAPI specs, and existing docs.
- 07** Create a living style guide for endpoints and examples.

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Data, Models & Toolchain

Identify data sources, AI models, and tooling required to generate API docs from code. Define guardrails, security practices, and workflow integration.

Key move **Prototype in a small service; measure accuracy before broad rollout.**

PRACTICAL CHECKLIST

- 01** Required data: source code, OpenAPI or Swagger specs, existing docs, and changelogs.
- 02** Tools: code parsers, AI models (e.g., Claude/ChatGPT), and a docs generator (Markdown/ASCIIDoc) in CI.
- 03** Environment: CI/CD access, secure secrets vault, and a staging docs site for reviews.
- 04** Data governance: maintain endpoint ownership mapping and versioned docs.
- 05** Prompts and tooling: define reusable prompts, templates, and guardrails for accuracy.
- 06** Security: avoid leaking tokens; sanitize inputs; audit logs.
- 07** Outputs: human-friendly API docs with code samples, authentication, rate limits.

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Weekly Adoption Plan

Plan adoption in small weekly increments with clear ownership and success metrics. Establish guardrails and review processes.

Key move Document decisions; ensure owners approve changes before publishing to production.

PRACTICAL CHECKLIST

- 01** Week 1: inventory endpoints, assign owners, and establish data sources from code and specs.
- 02** Week 2: integrate AI draft generator in CI and publish internal docs drafts.
- 03** Week 3: set review gates, assign reviewers, and route drafts to staging.
- 04** Week 4: release to developer portals after QC and collect feedback.
- 05** Week 5: measure metrics, refine prompts, and formalize ownership.

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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