

M C P   S E R V E R

N O   C O D E

C L O U D   H O S T E D

# Learning Curve Projection MCP

Forecast your surfing progression and training requirements.

Learning Curve Projection MCP uses predictive modeling to map out your surfing skill development. It looks at how often you practice, your access to coaching, and your current ability to forecast exactly how you will improve. You can use it to find training bottlenecks, estimate time to reach new levels, and prepare for inevitable progress plateaus.

surfing

skill-acquisition

progression

coaching

training



# The connectivity layer between AI and the world's software.



Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

# Your AI Connections Run Through Vinkius Cloud

The world's largest  
managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

*The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.*

— Architecture principle

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## Four Pillars of the Vinkius Runtime

### 01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

### 03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

### 02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

### 04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

**AES-256**

Encryption at rest

**Ed25519**

PKI vault signatures

**24h TTL**

Ephemeral session keys

**V8 Isolate**

Sandboxed execution

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## One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

**MCP ENDPOINT**`https://edge.vinkius.com/{token}/mcp`

Claude



Cursor



VS Code



Windsurf



Grok



Gemini

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## Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

**01 — Ed25519 PKI Vault**

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

**02 — V8 Isolate Sandboxing**

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

### 03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

### 05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

### 04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

### 06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot is used outside Vinkius infrastructure, the server is quarantined instantly.

## Emergency Kill Switch

EU AI Act Art. 14(1)  
Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

#### 01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

#### 02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

#### 03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

## Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

**Control Plane**

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

**FinOps**

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

**Firewall & DLP**

PII redaction activity, sensitive data protection counters, and security event timeline.

**Agent Activity**

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

**Tool Health**

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

**Incident Log**

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

Get started at [cloud.vinkius.com](https://cloud.vinkius.com) — connect your AI agent in under 60 seconds.

# Learning Curve Projection MCP

4 tools available

Cloud-hosted on Vinkius

Stop guessing how much longer it will take to catch better waves. This MCP gives you a data-driven way to track your surfing evolution. By analyzing your specific practice habits and coaching frequency, your AI client can build a realistic roadmap of your skill acquisition. Instead of wondering why you aren't improving, you can pinpoint exactly which sub-skills, like paddling or your pop-up, are holding you back. It turns vague training goals into a concrete timeline, helping you decide if you need more sessions or a different coaching approach to hit your next milestone.

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## Core Capabilities

### 01 — Skill Roadmap Generation

Your agent uses this to create a timeline of your expected surfing improvements.

### 02 — Training Time Estimation

Your AI client calculates the total hours needed to hit specific proficiency milestones.

### 03 — Bottleneck Identification

The MCP finds which specific movements or sub-skills are slowing down your overall growth.

### 04 — Plateau Forecasting

Your agent predicts when your progress will likely stall based on your current regimen.

# One Click on Vinkius — From Prompt to Execution

Available at [vinkius.com/en/ai-agent-connect/learning-curve-projection](https://vinkius.com/en/ai-agent-connect/learning-curve-projection) — connect your AI agent in three steps.

- 01 Connect your preferred MCP client to Vinkius.
- 02 Provide your current skill level and practice habits to your agent.
- 03 Ask your agent to run specific projection or calculation tools.
- 04 Review the generated growth roadmaps or bottleneck reports.

Connecting this MCP to your AI client gives you immediate access to predictive surfing models.

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## Built For

This MCP is built for surfers who want to treat their progression like a science rather than a guessing game.

### Amateur Surfers

They use the MCP to plan their training schedules and set realistic goals.

### Surf Coaches

They hand off data to the AI to help predict student progress and identify training gaps.

### Athletic Trainers

They use the modeling to adjust training loads and prevent plateaus.

# What Changes When You Connect

- 01 Predicts specific timeframes for reaching new skill levels.
- 02 Identifies the exact sub-skills causing progress delays.
- 03 Forecasts upcoming plateaus before they happen.
- 04 Turns practice frequency into a measurable growth roadmap.

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## Real-World Applications

### Goal Setting

Calculate exactly how many hours of practice you need to move from Novice to Intermediate.

### Troubleshooting Progress

Determine if your pop-up or paddling is the reason you aren't improving.

### Training Optimization

Find out if adding more coaching sessions will actually speed up your progression.

### Schedule Planning

Map out your skill growth over a 10 week period to stay motivated.

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## 4 Tools Available

| #  | TOOL                      | DESCRIPTION                                                                                                     |
|----|---------------------------|-----------------------------------------------------------------------------------------------------------------|
| 01 | compare_skill_components  | This tool identifies which specific surfing sub-skills act as the primary bottleneck for your overall progress. |
| 02 | identify_skill_plateaus   | Use this to find the specific points in your training schedule where your improvement is likely to stall.       |
| 03 | project_skill_progression | This tool generates a complete roadmap showing your expected skill growth over a set timeframe.                 |
| 04 | calculate_required_hours  | Get an estimate of the total practice time you need to reach a specific target skill level.                     |

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## See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

**U** How long will it take me to reach Intermediate level if I practice 3 times a week with a coach?



Based on your current Novice level and practice frequency, it will take approximately 12 weeks to reach the Intermediate level with coaching.

**U** Show me my expected skill growth for the next 10 weeks.



Over the next 10 weeks, your proficiency is projected to increase from Novice to a high-level Novice, with significant gains in Paddling.

**U** Will I hit a plateau soon if I keep practicing twice a week?



Yes, a plateau is expected around week 6 where your improvement rate will temporarily slow down.

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## Frequently Asked Questions

### 01 What can this MCP do for my surfing?

It provides predictive modeling to forecast your skill growth, estimate required practice hours, and identify training bottlenecks or plateaus.

### 02 How does it calculate my progress?

The MCP analyzes your current proficiency, how often you practice, and your access to coaching to create its projections.

**03 Which AI clients can I use with this?**

You can use this MCP with any compatible client like Claude, Cursor, Windsurf, or VS Code.

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**04 Can it tell me why I am not improving?**

Yes, it uses a tool to compare skill components and find specific bottlenecks like paddling or pop-up mechanics.

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**05 Do I need to host this myself?**

No, Vinkius hosts and manages the MCP so it is ready to use as soon as you connect your client.

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# Go Live in 60 Seconds

Get your connection token from [cloud.vinkius.com](https://cloud.vinkius.com), then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

https://edge.vinkius.com/[TOKEN]/mcp

| CLIENT                                                                                       | WHERE TO CONFIGURE                                                                                          |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
|  Claude AI  | Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint                              |
|  Cursor     | Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint                     |
|  VS Code  | Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"learning-curve-projection": {<br/>  "url": "..." }</code> |
|  Windsurf | MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL                                            |
|  ChatGPT  | Settings → Tools & plugins → Add MCP server → Paste endpoint                                                |
|  Gemini   | Extensions → Add MCP Server → Paste endpoint URL                                                            |

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

 Ask ChatGPT

 Ask Claude

 Ask Perplexity

 Ask Gemini

 Ask Grok

READY TO CONNECT

# Learning Curve Projection is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and  
start building. No SDK. No deployment. Just results.

**Start at [cloud.vinkius.com](https://cloud.vinkius.com) →**

[vinkius.com](https://vinkius.com) · [support@vinkius.com](mailto:support@vinkius.com)

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DOCUMENT INFORMATION

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