MCP SERVER | NO CODE | CLOUD HOSTED

Rank Percentile Calculator MCP for AI Agents

Determining your precise rank standing in competitive gaming titles

The Rank Percentile Calculator tells you exactly where you stand among millions of players in competitive games like Valorant, League of Legends, and CS2. It provides precise metrics on your rank relative to the entire player base, letting you know what percentage of people you've surpassed. Use it to pinpoint how much progress you need to reach the next tier.

A+ Quality Score 100/100

valorant | league-of-legends | cs2 | gaming-stats | rankings | esports

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vinkius.com/mcp/rank-percentile-calculator

SCAN TO VIEW

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

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.

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.

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.

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	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	Sandboxed execution

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

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.

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.

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.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken 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.

Agent Activity

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

FinOps

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

Tool Health

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

Firewall & DLP

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

Incident Log

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

> Get started at **cloud.vinkius.com** — connect your AI agent in under 60 seconds.

Rank Percentile Calculator MCP

4 tools available
Cloud-hosted on Vinkius

This MCP connects your AI client directly to detailed player distribution data for major competitive video games. Forget guessing where you stack up; this tool gives you hard numbers about your placement in the global player base. You can use it to figure out your exact percentile standing, or determine what percentage of players you need to pass just to hit the next rank tier. The system keeps track of patch-specific metrics for popular titles including Valorant, League of Legends, CS2, Apex Legends, and Dota 2.

When you connect this through Vinkius, your agent can access all this data instantly. It takes complex statistical queries—like calculating the difference between two ranks or checking if the current stats are up to date—and turns them into simple answers for your workflow.

Core Capabilities

01 — Determine Global Rank Percentage

Find out what percentage of all players in a specific game and rank you have surpassed.

02 — Calculate Rank Progress Gap

Figure out the required progress or percentile jump needed to reach an adjacent competitive rank.

03 — Check Data Currency

Verify the patch version and last update date of the ranking data for any supported game.

04 — List Supported Ranks and Games

Get a comprehensive list of all games and rank tiers available for percentile calculation.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/rank-percentile-calculator** — connect your AI agent in three steps.

01 Tell your AI client which game and specific rank you want to check.

02 The MCP fetches the current player distribution data, confirming it's using the most recent patch metrics available for that title.

03 Your agent then uses this information to calculate whether you need to overcome a certain percentage of players or what percentile you currently hold.

The bottom line is, your AI client gets immediate, data-backed insights into competitive ranking statistics without needing manual lookups or external websites.

Built For

This MCP is built for serious players and content creators who treat gaming as a measurable skill. If you're tired of vague rank descriptions and need to know your precise statistical standing, this tool works for you.

Esports Coach

Using the MCP, coaches analyze player data to tell athletes exactly what percentage gap they need to close to reach a higher competitive tier.

Professional Player

Players use this tool to quickly check their percentile ranking across multiple games and identify which ranks offer the best statistical growth potential.

Gaming Data Analyst

Analysts use it to track rank inflation or deflation for specific titles, comparing current player distributions against previous patches.

What Changes When You Connect

01 Know your true ranking: Use `get_rank_percentile` to move past general descriptions and see the exact percentage of players you've surpassed globally.

02 Set clear goals: Instead of just aiming for a badge, use `calculate_next_rank_gap` to quantify exactly how much progress you need to make next.

03 Trust the data: Before relying on any stats, run `get_game_metadata` to ensure your AI client is reading current patch-specific metrics for Valorant or CS2.

04 Compare everything: Use `list_supported_ranks` to quickly see which games and ranking systems are available for immediate analysis through your agent.

05 Focus on growth, not fluff: The MCP gives you actionable data points rather than just high scores; it quantifies the journey from one rank to the next.

Real-World Applications

A player needs to know if their current ranking is impressive.

A user asks their agent, 'What percentage of players are in Radiant for Valorant?' The agent uses `get_rank_percentile` and replies that the rank represents the top 0.1%, giving the player a clear measure of elite status.

A coach is setting a measurable goal for an athlete.

The coach asks, 'How much more progress does Player X need to reach Diamond from Platinum in League of Legends?' The agent uses `calculate_next_rank_gap`, providing a concrete percentage increase needed.

A streamer needs to verify if the stats they are showing are current.

The streamer asks, 'Are the CS2 rankings up to date?' The agent uses `get_game_metadata` and responds with the patch version and last update date, preventing misinformation.

A user wants a full scope of available games for analysis.

The user prompts, 'What games can I check my rank on?' The agent uses `list_supported_ranks` to provide a list of all supported titles, including Apex Legends and Dota 2.

Patterns to Avoid

Asking for vague advice

✗ AVOID

Prompting the AI: 'How do I get better at Valorant?' The response is generic fluff about practice schedules or teamwork, providing no quantifiable data.

✓ INSTEAD

Ask specifically: 'What percentage of players are in Immortal rank on Valorant?' Use `get_rank_percentile` to force a hard statistical answer that shows your precise standing.

Ignoring data freshness

✗ AVOID

Assuming old stats are fine and asking for a calculation using outdated data from last month's patch.

✓ INSTEAD

Always start by calling `get_game_metadata`. This ensures the agent knows if the ranking metrics it uses are current for that game, protecting you from bad data.

Focusing on arbitrary goals

✗ AVOID

Telling the AI to reach 'Diamond' without knowing what the jump requires. The response is useless because it lacks a metric.

✓ INSTEAD

Use `calculate_next_rank_gap` when asking about rank jumps. This tool gives you a percentage gap, turning an abstract goal into a measurable target.

The Right Fit

Use this MCP if your core need is statistical positioning. If you are trying to quantify how good someone is relative to millions of other players in competitive titles, this is the right tool. You need hard numbers: 'I am at the 1.2% mark.' Don't use it if you just want tips on improving aim or general strategy; those require qualitative advice. Also, don't rely solely on `get_rank_percentile`; always follow up with a check using `get_game_metadata` first to make sure the data is current before making any big decisions.

If your goal involves cross-platform comparison of entirely unrelated skills (e.g., comparing writing percentile to gaming percentile), this MCP won't help. You need a tool designed for multi-domain comparative metrics, not just specialized esports stats.

Rank Percentile Calculator: Measuring Player Standing in Esports

Right now, figuring out your rank often involves checking multiple websites and cross-referencing patch notes. You're left with a general title, like 'Diamond,' but you don't know if that means you're better than 50% or the top 2%. It's vague, it requires clicking through dashboards, and it rarely tells you what percentage of people are actually at your level.

With this MCP, your agent bypasses all that manual checking. You just ask for the percentile. The result is a clean, precise number—a single metric showing exactly where you sit in relation to the entire player base. It turns a fuzzy title into quantifiable proof.

Rank Percentile Calculator: Tracking Progress Gaps in Gaming Titles

Without this tool, if a coach wants to set goals, they have to estimate the jump from Platinum to Diamond. They give advice like 'You need to improve significantly.' That's not actionable for a player; it's just anxiety-inducing.

Now, your agent uses `calculate_next_rank_gap` and tells the coach exactly: 'The athlete needs to surpass an additional 18% of the population to reach Diamond.' It makes goal setting concrete and measurable.

Rank Percentile Calculator: 4 Tools for Esports Ranking Analysis

These tools let your AI client check data currency, calculate progress gaps, list supported games, and determine your precise rank percentage across multiple esports titles.

#	TOOL	DESCRIPTION
01	`calculate_next_rank_gap`	Determines how much further progress a player must make to reach the next rank tier.
02	`get_game_metadata`	Checks and reports the current patch version and update date for the ranking data of a specific game.
03	`get_rank_percentile`	Calculates the percentage of players who are at or above your specified rank in any supported game.
04	`list_supported_ranks`	Retrieves a list of all games and available ranks that can be queried for statistical data.

See It in Action

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

U What percentage of players are in the Radiant rank for Valorant?

Valorant Rank Distribution

RANK	POPULATION %
Immortal 3	1.2%
Immortal 2	0.9%
Radiant	**< 0.1%**

The Radiant rank represents the top fraction of players, confirming its status as an elite tier.

U How much progress do I need to reach Gold from Silver in League of Legends?

To get from Silver up to Gold requires surpassing approximately **15%** more of the total player base. This gap calculation tells you exactly where your focus needs to be to achieve measurable rank growth.

U Check if my CS2 ranking data is updated.

CS2 Data Status Check

- **Patch Version:** v7.34
- **Data Last Updated:** October 12, 2023
- **Confidence Score:** High

The current distribution metrics are based on this data snapshot.

Frequently Asked Questions

01 **How does the Rank Percentile Calculator determine my actual rank standing?**

It compares your rank against all other players in the game's database to give you a percentage. Instead of just saying 'Gold,' it tells you if you are better than 75% or only 60%, giving you much clearer feedback.

02 **Is the ranking data provided by the Rank Percentile Calculator current?**

You can always check the data freshness using the MCP. It verifies the patch version and last update date, so you know the stats your agent is providing are based on recent metrics.

03 **Can this tool help me set a specific goal for improving my rank?**

Yes. If you tell it your current rank and where you want to go, the MCP calculates the exact percentage gap you need to close using tools like `calculate_next_rank_gap`.

04 **What games are supported by the Rank Percentile Calculator?**

It covers major competitive titles including Valorant, League of Legends, CS2, Apex Legends, and Dota 2. You can check a full list using the tool's built-in function.

05 **Is this better than just looking up my rank on the game site?**

Yes. The MCP gives you context that the game site doesn't: a verifiable, global percentile number and a precise calculation of how much progress is left to reach your next goal.

Go Live in 60 Seconds

Get your connection token from **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 `"rank-percentile-calculator": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → 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

Rank Percentile Calculator 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 →

vinkius.com · support@vinkius.com

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