

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

Both Teams to Score Calculator MCP

Convert scoreline matrices into precise betting probabilities.

Both Teams to Score Calculator is a mathematical engine that processes football scoreline matrices. It calculates the likelihood of specific outcomes like BTTS, home-only scoring, or away-only scoring. You can set custom goal thresholds to define scoring events and get instant, mathematically sound probability distributions for any match model.

A+ Quality Score 100/100

football

probabilities

scoring

btts

statistics



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.

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

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.

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 — connect your AI agent in under 60 seconds.

Both Teams to Score Calculator MCP

4 tools available

Cloud-hosted on Vinkius

You can stop manually calculating betting probabilities from raw scoreline data. This MCP acts as a math engine for your AI client, taking a matrix of possible football scores and their likelihoods and turning them into actionable outcomes. If you have a distribution of possible scores, you can instantly find the probability that both teams score, or the chance that only one side finds the net.

You can define what counts as a scoring event by setting specific goal thresholds. This lets you move beyond simple binary outcomes and look at deeper scoring patterns. The tool also handles the heavy lifting of data integrity, ensuring your probability distributions actually add up correctly before you rely on them. It's built to turn raw statistical models into clear, readable summaries of the most likely match results.

Core Capabilities

01 — Outcome Derivation

Your agent uses this to turn score matrices into BTTS or single-team scoring probabilities.

02 — Data Validation

The AI checks your probability distributions to ensure they are mathematically valid.

03 — Matrix Filtering

Your client can isolate specific scorelines that meet custom goal requirements.

04 — Result Summarization

The tool provides a clear view of the most probable match results from a large dataset.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/both-teams-to-score-calculator — connect your AI agent in three steps.

- 01
- Connect your MCP-compatible client to Vinkius.
- 02
- Provide a scoreline probability matrix to your AI agent.
- 03
- Ask the agent to run a specific tool like `calculate_scoring_outcomes`.
- 04
- Receive the calculated probabilities or filtered data immediately.

Connect your client to Vinkius and start passing matrices to the tools.

Built For

This MCP is built for people working with football statistical models and betting probabilities.

Sports Analysts

They hand off raw scoreline distributions to the AI to get quick probability breakdowns.

Quantitative Bettors

They use the tool to convert complex matrices into specific market outcomes like BTTS.

Data Scientists

They use the validation tools to ensure their football models are mathematically consistent.

What Changes When You Connect

- 01
- Converts raw scoreline data into specific betting probabilities instantly.
- 02
- Validates that probability distributions are mathematically sound.
- 03
- Allows for custom goal thresholds to define scoring events.

- 04 Provides readable summaries of the most likely match outcomes.
-

Real-World Applications

BTTS Probability Calculation

You provide a matrix of scores and the AI tells you the exact probability of both teams scoring.

Model Integrity Checks

Run a validation check on a new scoreline matrix to ensure it is complete and correct.

High Scoring Filter

Filter a large dataset to only look at scorelines where a team scores multiple goals.

Match Result Summaries

Get a quick overview of the top three most likely scores from a complex probability model.

Patterns to Avoid

Feeding unvalidated probability data

❌ AVOID

You paste a raw matrix into your agent and immediately ask for BTTS probabilities without checking if the numbers add up to 1.0.

✓ INSTEAD

Always run ``validate_matrix_integrity`` first to ensure your distribution is mathematically sound before calculating outcomes.

Ignoring specific goal thresholds

❌ AVOID

You ask for scoring probabilities but forget that your model defines a 'scoring event' differently than a simple 1-0 result.

✓ INSTEAD

Use ``filter_matrix_by_threshold`` to isolate the specific scorelines that meet your custom goal requirements first.

Manually parsing large score matrices

❌ AVOID

You try to read through a list of 500 possible scorelines to find the most likely results for a match.

✓ INSTEAD

Let the MCP do the heavy lifting by using ``get_scoreline_summary`` to get a clean breakdown of the top results.

The Right Fit

Connect this MCP if you work with football statistical models and need to convert score matrices into market-ready probabilities. Do not connect it if you are looking for live match scores or general sports news. The decision depends on whether you already have a distribution of possible scores and just need the math performed.

Both Teams to Score Calculator: 4 Specialized Tools

These tools handle the math of turning raw scoreline matrices into specific betting probabilities and validated datasets.

#	TOOL	DESCRIPTION
01	calculate_scoring_outcomes	This tool derives the four mutually exclusive scoring probabilities from your provided matrix using a specific goal threshold.
02	filter_matrix_by_threshold	Use this to pull a subset of your matrix that only includes scorelines meeting your required goal count.
03	get_scoreline_summary	This tool generates a human-readable breakdown of the most probable scorelines and the total number of outcomes in your set.
04	validate_matrix_integrity	This tool checks your scoreline matrix to ensure the probability distribution is mathematically sound and complete.

See It in Action

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

- U** Calculate the scoring probabilities for this matrix: {"0-0": 0.1, "1-0": 0.2, "0-1": 0.1, "1-1": 0.2, "2-0": 0.1, "0-2": 0.1, "2-1": 0.1, "1-2": 0.1}



```
{"bttbProbability": 0.4, "homeOnlyProbability": 0.4, "awayOnlyProbability": 0.1, "neitherProbability": 0.1, "totalProbability": 1.0}
```

- U** What is the most likely scoreline for this matrix: {"1-0": 0.4, "0-0": 0.3, "1-1": 0.2, "2-0": 0.1}



```
{"mostLikelyScoreline": "1-0", "topThreeScorelines": ["1-0", "0-0", "1-1"], "totalOutcomes": 4}
```

- U** Filter the matrix for scores where at least one team scores 2 or more goals: {"0-0": 0.2, "1-1": 0.3, "2-0": 0.2, "0-2": 0.2, "1-0": 0.1}



```
{"filteredMatrix": {"2-0": 0.2, "0-2": 0.2}, "totalFilteredProbability": 0.4}
```

Frequently Asked Questions

01 What can this MCP calculate?

It calculates probabilities for Both Teams to Score, Home Team Only, Away Team Only, and Neither team scoring based on a scoreline matrix.

02 Can I set my own goal thresholds?

Yes, you can configure goal thresholds to define what counts as a scoring event for your calculations.

03 How do I know if my matrix is correct?

You can use the `validate_matrix_integrity` tool to check if your probability distribution is mathematically sound.

04 Which AI clients can use this?

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

05 Does it work with any football data?

It works with any scoreline probability matrix you provide, regardless of the source.

06 How do I ensure my scoreline matrix is valid?

You can use the `validate_matrix_integrity` tool to verify that the sum of all probabilities in your matrix equals exactly 1.0.

07 Can I change the definition of a scoring team?

Yes, by using the `minGoalThreshold` parameter in the `calculate_scoring_outcomes` tool, you can define the minimum goals required for a team to be considered as having scored.

08 What outcomes does the calculator provide?

The engine returns four mutually exclusive outcomes: Both Teams to Score, Home Team Only, Away Team Only, and Neither Team to Score.

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 <code>"both-teams-to-score-calculator": { "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

Both Teams to Score 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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DOCUMENT INFORMATION

Generated	September 2026
MCP Server	Both Teams to Score Calculator MCP
Server ID	01a0c2cc-0fab-7363-a021-f8770260658b
Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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