MCP SERVER | NO CODE | CLOUD HOSTED

Menu Margin Calculator MCP

Control your food costs and protect your restaurant's margins.

Menu Margin Calculator is a financial tool designed for restaurant owners and managers to handle food cost math. It lets your AI client calculate specific dish margins, simulate how price changes affect your bottom line, and check if your menu meets your required profit targets.

A+ Quality Score 100/100

profitability | food-cost | margin | pricing | restaurant-management

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · SEPTEMBER 2026

vinkius.com/en/ai-agent-connect/menu-margin-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.

Menu Margin Calculator MCP

4 tools available
Cloud-hosted on Vinkius

Running a kitchen means constantly balancing ingredient costs against menu prices. This MCP gives your AI client the math skills to handle those calculations instantly. Instead of digging through spreadsheets, you can ask your agent to check if a new steak dish hits your profit goals or how a price hike on burgers affects your overall menu performance.

You can use it to find the exact dollar profit and cost percentage for any single item. If you have a specific food cost target in mind, the tool can work backward to tell you exactly what you need to charge. It also handles the bigger picture by looking at your menu's composition to see weighted average costs. It's a direct way to ensure your pricing stays ahead of rising ingredient costs without the manual guesswork.

Core Capabilities

01 — Individual Dish Analysis

Your agent calculates the exact profit and cost percentage for any item you describe.

02 — Price Modeling

The AI determines the necessary menu price to hit a specific food cost percentage.

03 — Profit Goal Verification

Your agent checks if a dish's current margin meets your pre-set profit thresholds.

04 — Aggregate Menu Review

The tool calculates weighted average costs and margins across multiple menu items.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/en/ai-agent-connect/menu-margin-calculator** — connect your AI agent in three steps.

01 Connect your AI client to the Vinkius hosted MCP.

02 Provide your ingredient costs and menu prices to your agent.

03 Ask the agent to run specific margin or pricing tools.

04 Receive immediate financial data and pricing recommendations.

Connect the MCP to your preferred AI client to start running financial calculations.

Built For

This MCP is built for professionals managing food and beverage operations who need fast, accurate margin data.

Restaurant Owners

They hand off pricing simulations and profitability checks to their AI agent.

Kitchen Managers

They use the tool to verify if ingredient cost changes impact dish margins.

Financial Controllers

They use the aggregate analysis tools to monitor overall menu performance.

What Changes When You Connect

01	Eliminates manual math for food cost percentages.
02	Provides instant price adjustments based on target costs.
03	Identifies items that fall below profit requirements.
04	Calculates weighted averages for entire menu categories.

Real-World Applications

New Menu Pricing

Determine the exact price for a new entree to ensure it hits your target food cost.

Ingredient Cost Spikes

Check if a sudden increase in meat prices makes a specific dish unprofitable.

Menu Audits

Run an analysis on your whole menu to see the weighted average margin.

Profit Goal Tracking

Verify that every item on your menu meets your minimum dollar profit threshold.

Patterns to Avoid

Guessing prices by eye

AVOID

You look at a steak dish and decide to charge $32 because it feels right for the neighborhood.

✓ INSTEAD

Use `simulate_pricing_adjustment` to find the exact price needed to hit your specific target cost percentage.

Ignoring ingredient cost spikes

AVOID

The price of beef jumps 15% but you keep the menu price the same, hoping the margin stays okay.

✓ INSTEAD

Run `calculate_item_margin` to see exactly how much that cost increase eats into your dollar profit.

Overlooking menu-wide trends

AVOID

You check one or two popular items but ignore how the rest of the menu is performing.

✓ INSTEAD

Use `analyze_menu_composition` to get a clear view of weighted average costs across your entire menu.

The Right Fit

Connect this MCP if you manage food and beverage operations and need to protect your margins against fluctuating ingredient costs. If you don't have specific target cost percentages or profit thresholds to hit, this tool won't provide much value. It is built for people who need math-backed pricing rather than gut feelings.

Menu Margin Calculator: 4 Specialized Math Tools

These tools handle everything from single dish profitability to full menu weighted averages. Your agent uses them to run pricing simulations and margin audits instantly.

#	TOOL	DESCRIPTION
01	analyze_menu_composition	This tool calculates the weighted average cost and margin for a group of menu items.
02	calculate_item_margin	Use this to find the specific dollar profit and cost percentage for a single dish.
03	evaluate_profitability_threshold	This tool checks if a specific item meets your minimum required profit levels.
04	simulate_pricing_adjustment	This tool determines the menu price you need to set to hit a specific target cost percentage.

See It in Action

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

U What is the margin for a burger that costs $5 to make and sells for $15?

The burger has a food margin of $10.00 and a food cost percentage of 33.33%.

U I want a 25% food cost for a steak that costs $12.00. What should I charge?

To achieve a 25% food cost, you should charge $48.00, resulting in a $36.00 profit.

U Does a dish with a $12 price and $6 cost meet a minimum $7 profit requirement?

No, the item is not profitable because the current margin of $6.00 is below the required $7.00.

Frequently Asked Questions

01 **How do I use this with Claude or Cursor?**

You connect once through the Vinkius platform. Once connected, your AI client can immediately use the margin calculation tools.

02 **Can I calculate prices for a whole menu at once?**

Yes. You can use the tool to calculate weighted average costs and margins for groups of items.

03 **What if I have a specific profit target?**

You can use the pricing adjustment tool to find the exact price needed to hit your target cost percentage.

04 **Does this help with food cost percentages?**

Yes. The tool calculates both the dollar profit and the food cost percentage for any dish you input.

05 **Can I check if a dish is actually profitable?**

Yes. You can set a minimum profit threshold and the tool will tell you if a dish meets that requirement.

06 **How do I calculate the margin for a single dish?**

You can use the `calculate_item_margin` tool by providing the menu price and the total ingredient cost.

07 **Can I simulate how a price change affects my profit?**

Yes, the `simulate_pricing_adjustment` tool allows you to input your ingredient cost and a target cost percentage to find the suggested menu price.

08 **How can I check if my entire menu is profitable?**

Use the `analyze_menu_composition` tool with a list of your items to see the total revenue, total cost, and weighted average cost percentage.

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 `"menu-margin-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

Menu Margin 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

INDEPENDENT PLATFORM DISCLAIMER

Vinkius is an independent platform and is not affiliated with, endorsed by, sponsored by, verified by, or otherwise authorized by Menu Margin Calculator. All third-party trademarks, logos, and brand names are the property of their respective owners. Their use in this document is strictly for informational purposes to identify service compatibility and interoperability.

DOCUMENT INFORMATION

Generated	September 2026
MCP Server	Menu Margin Calculator MCP
Server ID	`01a0c8d4-f3c0-73a9-87a5-e22fb905d603`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

LICENSE & USAGE

This document is generated automatically by the Vinkius PDF Engine. Content reflects the MCP server configuration at the time of generation and may change as updates are deployed. For the most current information, visit vinkius.com/en/ai-agent-connect/menu-margin-calculator.