

Neural Sniper

Automated BSC Trading Platform
AI-Powered · Multi-User · PancakeSwap V2

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+64%

Average win rate
backtest data

< 3s

Entry speed
pool → buy

24/7

Operational
no downtime

8x

Security checks
before each buy

BSC Chain

PancakeSwap V2

AI-Powered

Multi-User

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Executive Summary

Neural Sniper is a fully automated trading platform for the Binance Smart Chain (BSC), built on PancakeSwap V2. The platform detects new token liquidity pools within 1–3 seconds of creation, runs eight parallel security checks and automatically buys on behalf of the user — without manual intervention, 24 hours a day, 7 days a week.

New tokens on BSC appear every minute. Neural Sniper is there before the market sees them.

Speed	Detection of new pools within 1–3 seconds via WebSocket connection
Security	8 parallel checks: tax, liquidity, ownership, contract and more
AI-driven	Gemini 2.0 scoring on entry + Groq LLaMA exit-timing on sell
Multi-user	Isolated wallets and settings per user, fully separated
Dashboard	Real-time WebSocket updates: positions, P/L, log and market regime live
Business	Three flexible tiers: Free (15 slots), Monthly (0.1 BNB) and Performance

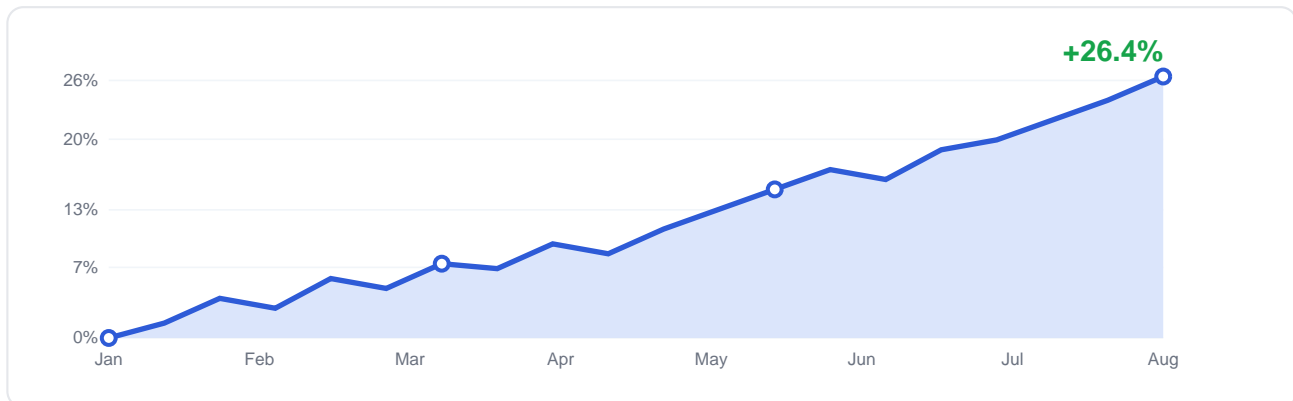


Figure 1 — Simulated cumulative P/L over 8 months. Backtest data — no guarantee of future results.

The BSC DeFi market represents hundreds of millions of dollars in daily trading volume. PancakeSwap V2 is the largest decentralised exchange on BSC with more than \$500M in daily volume. Every day 200–400 new tokens are launched — a portion of which see significant price moves in the first hours after launch.

Metric	Value	Source
BSC daily trading volume	\$500M+	DexScreener 2026
New tokens per day on BSC	200 – 400	BSCScan data
PancakeSwap daily users	150.000+	PancakeSwap Analytics
Avg. token movement first hour	± 85%	Internal analysis
Honeypot rate new tokens	~ 40%	GoPlus Security 2026
Human reaction time (manual)	15 – 60 sec	Comparative study
Neural Sniper entry time	< 3 seconds	Production data

The problem

Manually trading new BSC tokens is not competitive: human reaction time is up against automated bots that buy within milliseconds. On top of that, ~40% of all new tokens are honeypots or rug pulls — financially dangerous.

The solution

Neural Sniper detects new pools via WebSocket in real time, runs 8 security checks in parallel automatically and only buys when all checks are green. Average entry time: under 3 seconds.

What is Neural Sniper?

Neural Sniper is a SaaS trading platform that trades fully autonomously on the Binance Smart Chain. Users connect their BSC wallet, choose a trading strategy and the bot trades 24/7 on their behalf.

Feature	Description
Real-time pool detection	New PancakeSwap pairs found via WebSocket within 1–3 seconds
Automated buying	Serial buy orders to avoid nonce conflicts
Smart selling	Take Profit, Trailing Stop, Stop Loss and Max Hold timer
Presale monitoring	PinkSale/Gempad watchlist with automatic buy on launch
Live dashboard	Real-time WebSocket updates: positions, P/L, log and news
Admin control	Full control over all users, wallets, tiers and fees
Telegram community	@Bnb_sniper_community_bot with trade alerts and statistics
Auto-Tune AI	Bot automatically adjusts TP/SL based on its own performance

TRADING PROFILES

Profile	Strategy	Parameters
Sniper	Quick in, quick out	TP 25% · SL 15% · Max 10 min
Swing Trader	More time to grow	TP 45% · SL 20% · Max 4 h
Long Term	Calm, lower risk	TP 80% · SL 30% · Max 24 h
Balanced	Beginner friendly	TP 40% · SL 18% · Max 2 h
Manual	Fully customizable	All parameters freely adjustable

Neural Sniper is built on an asynchronous Python 3.11 backend (aiohttp) with real-time WebSocket communication. The architecture is event-driven: blockchain events trigger the analysis pipeline directly, without polling delay. Deployed on a DigitalOcean Ubuntu VPS via bnbsniperbot.eu.

PROCESSING PIPELINE — FROM POOL DETECTION TO TRADE EXECUTION

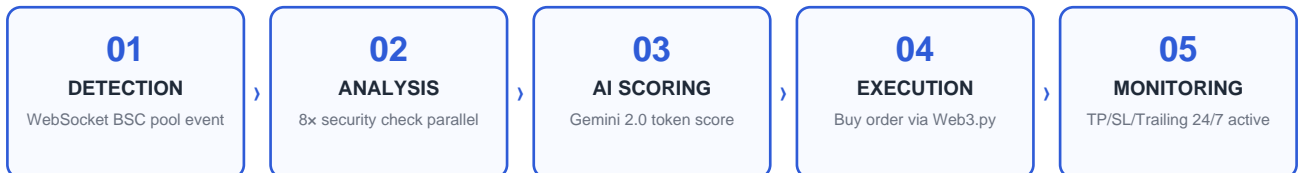


Figure 2 — Processing pipeline: from blockchain event to trade execution

TECHNOLOGY STACK

Component	Technology	Function
Backend	Python 3.11 / aiohttp	Async webserver + WebSocket hub
Blockchain	Web3.py / BSC RPC	On-chain transactions + event scanning
AI Scoring	Google Gemini 2.0 Flash	Token quality scoring 0–10
AI Sell	Groq LLaMA 3	Exit-timing and momentum analysis
Price data	DexScreener + Moralis	Live token price and metadata
Security	GoPlus + Honeybot.is	Dual honeypot verification
Security	Fernet AES-128 + PBKDF2	Encrypted storage of private keys
Deployment	DigitalOcean Ubuntu VPS	24/7 production server

Before every purchase, eight parallel security checks are performed. If a single check fails, the purchase is blocked. This system has reduced the ~40% honeypot rate on BSC to virtually zero misses.

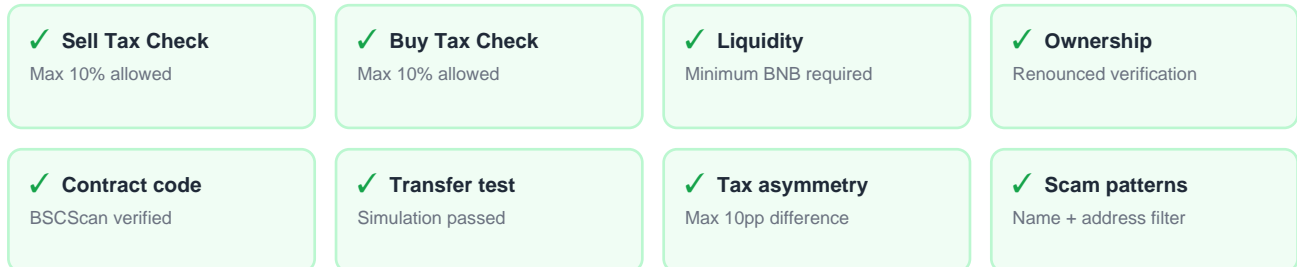


Figure 3 — The eight parallel security checks before each purchase

PLATFORM SECURITY

Security layer	Implementation
Password hashing	PBKDF2-HMAC-SHA256, 200,000 iterations, random salt per user
Private key storage	Fernet AES-128 encrypted — never plaintext on disk or in logs
File permissions	users.json stored with chmod 600 — owner read only
Login security	Max 5 attempts per 15 minutes per IP + audit logging
Wallet validation	At every startup: wallet address verified against private key
MEV protection	Optional private TX relay — transactions outside public mempool
Session management	Random token in cookie, in-memory, no database persistence

Neural Sniper integrates three AI systems that work together for optimal trading decisions: scoring on entry, exit-timing on sell and daily self-improvement of parameters.

AI System	Model	Function	Timeout
Token Scoring	Google Gemini 2.0 Flash	Score 0–10 on name, category and context	15 sec
Exit Timing	Groq LLaMA 3	Sell advice at >5% profit based on momentum	3 sec
Parameter Optimisation	Auto-Tune (internal)	Daily adjustment of TP/SL/hold	04:00 UTC

MARKOV REGIME DETECTION

The bot continuously monitors the market regime (Bull / Sideways / Bear) via a Markov model on BNB/USDT price data. In Bear markets stricter score thresholds apply and positions are closed faster. The regime is visible live on the dashboard as a score 0–1.

Bull

More aggressive · TP raised · lower score threshold

Sideways

Standard parameters · normal trading behaviour

Bear

Defensive · stricter filters · close positions faster

Neural Sniper is built as a fully multi-tenant platform. Each user has an isolated environment with their own wallet, positions, settings and log. The admin manages all accounts via a dedicated panel.

Feature	Description
Wallet isolation	Every user trades from their own BSC wallet — never via the admin wallet
Per-user settings	TP, SL, trailing stop, max positions and BNB per trade individually adjustable
Per-user log	Every user sees only their own trades, positions and log entries
Simulate mode	All users start in SIM mode — live trading is a deliberate choice
Account management	Admin can block, unlock and manage tiers for accounts
Tier management	Admin manages FREE/MONTHLY/PERFORMANCE tiers and renewals
Admin messaging	Admin sends messages to individual users or everyone
Registration approval	New accounts wait for admin approval before activation

All private keys are Fernet AES-128 encrypted. Passwords are PBKDF2-SHA256 hashed with 200,000 iterations. The users.json file has chmod 600 permissions. The admin never has direct access to plaintext private keys.

Business Model & Pricing

Neural Sniper uses a three-tier model that combines accessibility with sustainable revenue. The first 15 slots are free for life — after that, users choose the model that fits their situation.

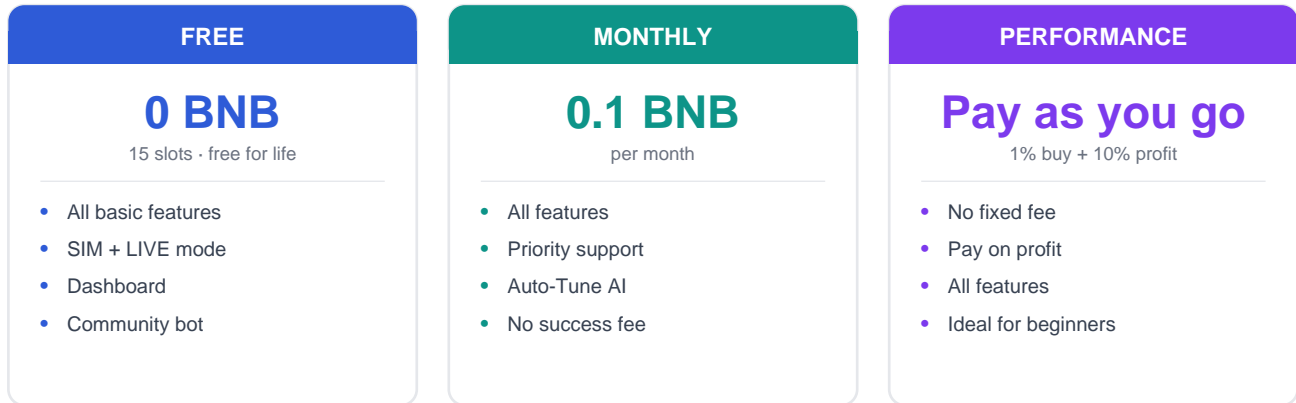


Figure 4 — Comparison of the three pricing tiers

REVENUE STREAMS

Stream	Model	Rate
Monthly subscription	Fixed monthly fee	0.1 BNB per month
Entry fee	Percentage of buy transaction	1% per purchase
Success fee	Percentage of realised profit	10% per profitable sell
Registration payment	One-time on registration	Variable (admin-configurable)

Important: Trading in cryptocurrency is inherently risky. All returns shown are indicative and based on simulated data. Past performance is no guarantee of future results. Never invest more than you can afford to lose entirely.

Risk	Description
Market risk	Crypto markets are volatile. Prices can drop rapidly regardless of entry quality.
Smart contract	Despite checks, new contracts may contain unknown vulnerabilities.
Liquidity risk	Low liquidity can lead to high slippage on purchase or sale.
Technical risk	RPC connection issues or API outages can temporarily disable the bot.
Regulatory risk	DeFi regulations differ by country. The user is responsible for compliance.
Key risk	Loss of ENCRYPTION_KEY makes all stored private keys inaccessible.

Neural Sniper is a software platform. We do not provide financial advice. All trading decisions are the responsibility of the user.
Neural Sniper is not liable for trading losses.

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