

Pulni

Brain Improvement Program

From boolean flags to a governed Brain body - awareness, cognition, outcomes, Bank, and daily heartbeat.

SHIPPED

SAFE

DELIVERY

What this program closed.

Pulni Brain had awareness gaps: no capability lifecycle, no shared decision IDs, no Bank, and an improvements cron that never ran. This delivery ships the missing operating layer.

Draft PR: loopconnect #643 - cursor/brain-improvement-program-8cf2

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Delivery areas

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Brain tests passing

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Daily heartbeat cron

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Live ranking apply

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How to read this deck

Gaps, delivery, verification, and honest blockers.

PART ONE - DIAGNOSIS

1. Root gaps
2. Why boolean flags failed
3. Missing Bank and telemetry

PART TWO - DELIVERY

1. Capability lifecycle
2. Cognition routing
3. Outcomes and Bank
4. Heartbeat and Prepare
5. Venue, ranking, unified AI
6. Self-eval and settings safety

PART ONE

Root gaps

What blocked a real Brain operating system.

DIAGNOSIS

The system could not refuse unavailable claims.

Boolean flags only - no lifecycle from unavailable to rolled back

No unified decision or outcome IDs across Brain acts

No Bank knowledge system

Improvements cron existed but was not scheduled

Contact, search, and venue AI sat outside the ai_runs story

enrichVenue unwired; Tier 2 Prepare was not real

No reproducible self-eval dashboard

High-risk Settings toggles lacked confirmation

PART TWO

What shipped

Governed capability, cognition, and measurement.

AWARENESS

Capability, authority, activation.

pulni_brain_capabilities plus audit trails. Gates refuse unavailable claims instead of pretending every toggle is live.

Lifecycle

unavailable → shadow → active → rolled_back

Authority

Activation only when capability allows it

Audit

Every gate decision is recorded

COGNITION

AI soul vs deterministic subconscious.

routeBrainCognition scores evidence strength and chooses a controlled path.

Proceed

Evidence is strong enough

Gather

Need more signal

Contain

Limit blast radius

Abstain

Do not act

Escalate

Human gate required

MEMORY

Outcomes and Bank knowledge.

Decisions

pulni_brain_decisions with measure windows and heartbeat measurement

Bank

docs/ai/bank + MANIFEST.json + DB index + bounded retrieval

Telemetry is no longer scattered. Decisions can be measured after they act.

RHYTHM

Daily heartbeat. Real Prepare drafts.

04:15

UTC heartbeat cron

T2

Prepare artifacts draft-only

runBrainHeartbeat scheduled in vercel.json at 15 4 * * *

pulni_brain_prepare_artifacts created as Tier 2 draft-only output

No silent implement, merge, or deploy from Prepare

BODY

Venue, ranking shadow, unified AI runs.

Venue

enrichVenueForBrain in Tier 4 venue pass

Ranking

Shadow policies for moments, loops, thoughts, venues, search

Unified AI

Contact + search bridge into ai_runs and decisions

Live ranking apply is not activated. Shadow only.

CONTROL

Self-eval and irreversible-action safety.

Self-eval

Admin tab + formula self_eval_v1

Settings

Confirmation required before high-risk enables

Operators can reproduce evaluation and cannot flip dangerous controls by accident.

VERIFICATION

Green checks before claim.

bun run typecheck - pass

bun run test src/server/brain - 111 pass

check:migrations / check:file-size / build - pass

Staging applied on Pulni-Staging

GOD Brain Model (01) untouched

Seeded

code.auto_merge = unavailable

Shadow

venues.enrich_ai = shadow

Active

learning.heartbeat = active

HONEST STATUS

Remaining blockers.

No Admin UI screenshots in this run

Staging Vercel deploy of the branch not run here

Generated Supabase types not regenerated

Thoughts/venues/search ranking still scaffolding, not full scorers

Contact/search still use legacy clients, now bridged into telemetry

Autonomous repair / merge / deploy / schema remain unavailable on purpose

Pulni Brain

Shipped safely. Measured honestly.

Production ranking apply OFF. Secrets, RLS, and auth untouched. Auto merge, deploy, and silent implement remain no-op or unavailable.

EN DECK

AR DECK

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