LOUST-PRO/LLMmempipe

Source: LOUST · **Status:** Shipped · **Period:** 2025-08 (active)

Memory-pipeline cleaner for LLM chat exports: canonical normalization, deterministic PII scrubbing, and diff-friendly output.

The challenge

My chat history exports from Claude, ChatGPT, and Gemini each had their own schema, their own stale PII, and their own broken tool calls. When I fed them into long-running agents as long-term memory, the contamination propagated downstream and surfaced weeks later as confused behavior.

My role

I built a Rust-based cleaner that normalizes heterogeneous chat exports into a single canonical schema with deterministic, rule-based PII scrubbing and a diff-friendly output format.

What changed

Schema drift across vendors

Baseline: 3 vendors, 3 schemas, 3 failure modes

1 canonical schema, 1 failure surface

PII scrub coverage

Baseline: About 70% (regex heuristics)

About 98% (rule-based + audit trail)

Memory file reviewability

Baseline: File-level diff (single line buried in hundreds)

Per-line diff with stable IDs

Stack

Rust | LLM tooling | normalization