nēdl labs

Stop losing $25-$181 per claim due to manual rework.

Start recovering millions with AI that actually works.

AI alone can't solve for Payment Integrity

nēdl's compound AI (agents + rules + knowledge graph) turns data into executable, evidence-backed rules with provenance.

The Problem Payers Face

Unstructured Data Challenge

60% of policies are unstructured (PDFs, Word docs) – traditional AI fails

Scale Limitations

150M+ documents are processed annually; current tools choke on scale

Regulatory Compliance Gap

Black-box AI can't pass regulatory audit

Policy-Contract Drift

Causes 20-40% of leakage but no system detects it

Our Solution

nēdl pulse

AI-Powered Payment Integrity Analytics Suite for Healthcare Payers

One platform • Four apps • Intelligent Analytics

- Claims Repricer
- Policy Intelligence
- Contract Library
- DRG Re-Classification

Payment Leakage Analysis

The nēdl difference: Compound Neuro-Symbolic AI

NEURAL ENGINE
AI Pattern Recognition
- Multi-Model Deep Learning Architecture
- Clinical Entities & Metadata Extraction
- Context, Ontology, Temporal, & Reasoning

→

SYMBOLIC COMPONENT
Logical Reasoning
- Clauses as executable Logical Rules
- Structured Entities and Relational Graphs
- Programmatic Evaluation and Verification

→

INTEGRATION LAYER
Graph-RAG
- Sparse & Dense Retrieval
- Indexing, comparison, and generation
- Audit trails, Lineage, citations

Enterprise Grade Security

- SOC 2 Type II
- HIPAA (BAA)
- HITRUST Aligned
- TLS 1.3
- AES-256 Encryption
- MFA & RBAC

The Difference

10x	4x	50%	3x
Faster	More Accurate	Lower Cost	Faster Deployment

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Processing Pipeline

Data Ingestion — Public and Payer Data → **AI Extraction** — Entities to contexts → **Rules Validation** — Logic, Reason, Clauses → **Knowledge Graph** — Data, Relationships, Vectors → **Workflow** — Auditable, Explainable, Human-in-loop

Integration Capabilities

Data In

EDI 837/835, policy repositories (PDF/Word/structured), provider contracts, HL7/FHIR clinical docs, price transparency (MRF/JSON)

Data Out

REST/GraphQL APIs, ELT/ETL, real-time streams & batch, EDI/HL7/FHIR

Ecosystem

Warehouses/OLAP, BI (Tableau/Power BI/Looker), orchestration (Airflow/Prefect), claims platforms

Why this architecture wins

Neuro-Symbolic > Vanilla AI

- AI reads, logic proves: repeatable, auditable decisions (no black boxes)
- Consistent & compliant: deterministic rule execution; effective-date aware lineage

Schema-Constrained Generation

- Models emit approved predicates/fields only
- Logic is compiled, executed, and traced before use

Evidence-First by Design

- Clause-level citations + full provenance (document, version, section, effective date)
- Provider-ready packets cut appeals (target −70%) and raise net-keep

Scale & Performance

- Cloud-native (AWS/Azure/GCP) or air-gapped on-prem
- Horizontal scale for peaks; 150M+ documents processed; near real-time policy updates

Key Differentiators

nēdl's compound AI (LLMs + rules + knowledge graph) turns policies, contracts, clinical notes, and fee schedules into **executable, evidence-backed rules** with clause-level citations, lineage, and effective dates. **Hybrid retrieval** and **schema checks** keep outputs explainable and audit-ready—so experts move faster with fewer errors and minimal disruption.

Component	Legacy Approach	nēdl Pulse
Policy extraction	Single-model NLP	Multi-model ensemble + UMLS
Decision logic	Probabilistic	Deterministic + backtracking proofs
Lookup	Keyword	Sparse + dense (Keyword and Vector)
Citations	Limited	Clause-level + document lineage
Integration	Months	Weeks

Verified Recovery | Workflow AI + HI | Audit Trail | SOC 2 / HIPAA

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