



AI



Share

Provider Validation Console

Wireframe Navigation

1 2 3 4 5

Total Providers

12,480

Validated Providers

9,860

Pending Review

1,920

Low Confidence Records

700

Filters

Validation Status

- All Records
- Validated
- Pending Review
- Needs Attention

Confidence Level

- High (90%+)
- Medium (70-89%)
- Low (<70%)

State / Region

Select State

Provider Validation Summary

Provider Name	Specialty	License Status	Confidence Score	Validation Outcome	Last Verified
Dr. Sarah Chen	Cardiology	Active	94%	Validated	2024-12-10
Dr. Michael Rodriguez	Family Medicine	Active	89%	Validated	2024-12-11
Dr. Jennifer Williams	Pediatrics	Active	97%	Validated	2024-12-12
Dr. James Patterson	Orthopedic Surgery	Pending	72%	Under Review	2024-12-09
Dr. Emily Thompson	Internal Medicine	Active	91%	Validated	2024-12-13



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State / Region

Select State

Specialty

Select Specialty

Apply Filters

Dr. James Patterson	Orthopedic Surgery	Pending	72%	Under Review	2024-12-09
Dr. Emily Thompson	Internal Medicine	Active	91%	Validated	2024-12-13
Dr. Robert Kim	Dermatology	Active	86%	Validated	2024-12-11
Dr. Maria Garcia	Neurology	Active	68%	Needs Review	2024-12-08
Dr. David Lee	Psychiatry	Active	93%	Validated	2024-12-14
Dr. Lisa Anderson	Obstetrics & Gynecology	Active	88%	Validated	2024-12-12
Dr. Christopher Brown	Emergency Medicine	Active	95%	Validated	2024-12-13



Provider Validation Console

Provider Profile

Provider Name

Dr. Sarah Chen, MD

NPI Number

1234567890

Specialty

Cardiology

State License ID

CA-MD-98765

Practice Location

Medical Plaza, Suite 400
1234 Healthcare Drive
San Francisco, CA 94102

Affiliated Hospital

St. Francis Medical Center

Years in Practice

12 Years

Board Certification

AI Validation Checks

CMS Registry Match

Provider NPI verified against CMS National Provider Registry

Match Score: 100% • Last Verified: 2024-12-10

State License Verification

Active license confirmed with California Medical Board

License Status: Active • Expiration: 2026-03-15

External Trusted Sources

Cross-referenced with NPDB, CAQH, and hospital credentials

3 sources validated • No disciplinary actions found

Historical Data Consistency

Practice location and specialty history remain consistent

Confidence Assessment

Overall Confidence Score

94%

High Confidence

Confidence Drivers

Data Completeness

98%

Source Reliability

95%

Historical Consistency

96%

External Validation

91%

Why This Score Was Assigned

The high confidence score is driven by strong verification across multiple authoritative data sources.



Provider Validation Console

Specialty

Cardiology

State License ID

CA-MD-98765

Practice Location

Medical Plaza, Suite 400
1234 Healthcare Drive
San Francisco, CA 94102

Affiliated Hospital

St. Francis Medical Center

Years in Practice

12 Years

Board Certification

American Board of Internal Medicine - Cardiology

Record Status

Last Updated: December 10, 2024

Record ID: PRV-2024-00847

State License Verification

Active license confirmed with California Medical Board

License Status: Active • Expiration: 2026-03-15

External Trusted Sources

Cross-referenced with NPDB, CAQH, and hospital credentials

3 sources validated • No disciplinary actions found

Historical Data Consistency

Practice location and specialty history remain consistent

Consistency Score: 96% • Records reviewed: 24 months

Insurance Network Status

Current network participation confirmed across major payers

Networks verified: 8 • Last sync: 2024-12-08

Wireframe Navigation

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All required credentials were successfully validated, including active state licensure and current NPI registration.

Historical data shows consistent practice patterns with no gaps or discrepancies in the provider's professional record.

Minor score reduction due to one data source requiring periodic refresh within the next 30 days.

Validation Timeline

12:34 PM Record submitted for validation

12:35 PM AI validation agents initiated

12:38 PM External source verification completed

12:39 PM Confidence score calculated

Approve Record

Request Update

Reject Record



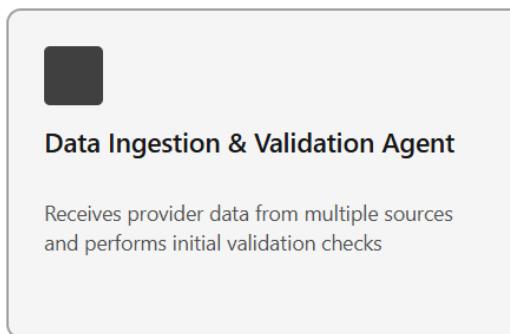
Provider Validation Console

Wireframe Navigation

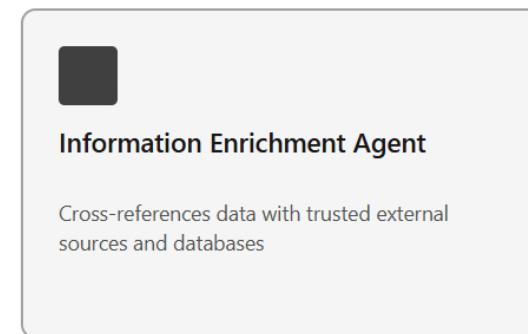
1 2 3 4 5

AI-Powered Validation Pipeline

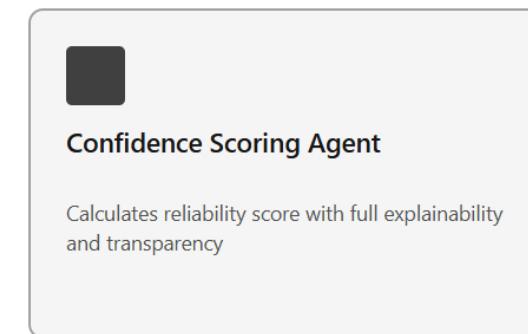
Automated multi-agent system for provider data validation and confidence scoring



~15,000 records/hour



12 integrated databases



3.2 seconds per record

Pipeline Output & Routing



AI

Enterprise AI Governance Wireframe



Share

High Confidence (90%+)

78.9%

Auto-approved for directory inclusion

Medium Confidence (70-89%)

15.4%

Routed for human review

Low Confidence (<70%)

5.7%

Escalated for manual investigation

Wireframe Navigation

1 2 3 4 5

Technical Architecture

Agent Framework

Multi-agent orchestration with autonomous decision-making

Data Processing

Real-time streaming with batch fallback capability

Machine Learning Models

Ensemble models with continuous learning from human feedback

Explainability Engine

Natural language explanation generation for all scoring decisions

Performance Metrics

Accuracy Rate 96.8%

False Positive Rate 1.2%

Average Latency 3.2 seconds

Daily Throughput 360,000 records

System Uptime 99.7%

External System Integrations

CMS NPPES
NPI RegistryState Medical Boards
License VerificationNPDB
Practitioner DataCAQH ProView
Credentialing



Provider Validation Console

Human Review & Approval Interface

Record ID: PRV-2024-01254 • Submitted: December 14, 2024

AI Confidence Score

72%

Wireframe Navigation

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Risk Level

Medium - Review Required

Submitted Provider Data

Source: Regional Health Network

Basic Information

Provider Name	Dr. James Patterson
NPI Number	9876543210
Specialty	Orthopedic Surgery
State	Texas

License Information

State License ID	TX-MD-45678
License Status	Pending Verification
Issue Date	2015-06-12
Expiration Date	2025-06-12

AI-Verified Provider Data

Validated: December 14, 2024

Basic Information

Provider Name	Dr. James Patterson ✓ Verified
NPI Number	9876543210 ✓ CMS Match
Specialty	Orthopedic Surgery ✓ Confirmed
State	Texas ✓ Verified

License Information

State License ID	TX-MD-45678 ⚠ Pending State Board Response
License Status	Active (Unconfirmed) ⚠ Awaiting Verification
Issue Date	2015-06-12 ✓ Matches Records
Expiration Date	2025-06-12 ✓ Valid Period



Enterprise AI Governance Wireframe



Practice Information

Practice Name	Advanced Orthopedic Associates
Address	5678 Medical Center Blvd Houston, TX 77030
Phone	(713) 555-0199
Hospital Affiliation	Methodist Hospital

Board Certification

Certifying Board	American Board of Orthopaedic Surgery ✓ ABMS
Certification Date	2016-11-20 ✓ Confirmed
Status	Active ✓ Current

Wireframe Navigation

1 2 3 4 5

Board Certification

Certifying Board	American Board of Orthopaedic Surgery
Certification Date	2016-11-20
Status	Active

AI Validation Summary

Most provider information successfully verified through authoritative sources.

Issue Identified: Texas Medical Board API returned delayed response. License status could not be confirmed in real-time.

Recommendation: Approve pending manual license verification, or wait 24-48 hours for automatic retry.

Reviewer Notes

Add notes or comments about this validation...

Audit Comments

Document any compliance or audit considerations...

Reviewer: admin@healthcare.com • Session: 2024-12-15 10:45 AM

Escalate for Manual Review

Send for Correction

Approve Validation



Provider Validation Console

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Validation & Compliance Insights

Comprehensive reporting and audit readiness metrics

Overall Validation Rate

94.2%

Last 30 days

Average Confidence Score

87.6%

Across all providers

Records Processed

24,680

Current month

Manual Review Rate

15.4%

Human oversight

Validation Accuracy Overview

License Verification Accuracy

98.2%

NPI Matching Accuracy

99.7%

External Source Validation

95.4%

Board Certification Checks

97.1%

Confidence Score Distribution

High Confidence (90-100%)

Auto-approved records

9,860

78.9% of total records

Medium Confidence (70-89%)

Routed for review

1,920



Enterprise AI Governance Wireframe

Share



Medium Confidence (70-89%)

Routed for review

15.4% of total records

Low Confidence (<70%)

Requires investigation

700

5.7% of total records

Wireframe Navigation

1 2 3 4 5

Compliance Status Summary

NCQA Compliance Standards	Met
Network adequacy requirements	Last audit: Q4 2024
CMS Directory Accuracy	96.8%
Federal accuracy requirements	Target: ≥95%
State Regulatory Requirements	Compliant
Multi-state compliance	All 50 states
Data Privacy & Security	Certified
HIPAA compliance	SOC 2 Type II

Audit Readiness Indicators

Documentation Completeness	98%
All validation decisions documented with rationale	
Traceability Score	100%
Complete audit trail for all provider records	
Source Verification Rate	97%
Primary source verification completed	



AI

Enterprise AI Governance Wireframe



Share

Audit Trail Completeness

Full change history

100%

All records tracked

Review Turnaround Time

Average time for human review completion

Wireframe Navigation

1 2 3 4 5

Explainability Coverage

100%

AI decisions include human-readable explanations

Processing Statistics - Last 30 Days

24,680

Total Records Processed

23,244

Successfully Validated

3,802

Human Reviews Completed

634

Records Rejected

3.2 sec

Average Processing Time

Report Generation & Export

Generate compliance reports and audit documentation

Download Audit Log

Export Validation Report

Compliance Summary Report

PDF format • Comprehensive compliance metrics

Validation Activity Log

CSV format • Detailed transaction history

Audit Trail Documentation

JSON format • Complete audit trail data