

AGENTIC AI

AI-Powered Entity Resolution at Scale

Mineral rights owner database — 1.69M records cleaned in 3 weeks

1.69M
RECORDS

125x
COST SAVINGS

99%+
VALIDATED

3 Wks
TIMELINE

What would cost \$25,000+ in analyst time , AI completed for ~\$200 — with every decision documented for audit.

THE PROBLEMS

Two types of data corruption — neither solvable by rules alone

VALIDATION COST

50,000+ decisions to verify



Collision IDs

Different people sharing ONE ID

OWNER ID: 817132

Sims Frances A	Tyler, TX
Pendergast Finis H	Tuscaloosa, AL
Police Billy	Huntington Beach, CA
Palmer Ruth C	Oberlin, OH

... + 666 more strangers on this ONE ID

⚠ Excluding one owner would exclude all 670



Unstable IDs

Same person with MULTIPLE IDs

MILLER PAULA (TEXAS)

Miller Paula	ID 700576
Miller Paula	ID 880625
Miller Paula	ID 1281581
Miller Paula	ID 1234990

Same owner recorded 4 different ways

⚠ Team could contact her 4 separate times



Traditional Approach

Junior analysts review matches
~500 hours of manual work
Subjective, inconsistent decisions

\$25,000+



AI Agent Review

Parallel AI agents reason through each
Every decision documented
100% coverage, not spot-checks

~\$200

125x

COST REDUCTION



1,250,757

Unique owners properly identified



4,817

Exclude list owners matched (84%)



268+

Systematic errors found & fixed



100%

Decisions documented for audit