How AI Agents Replace Manual Review
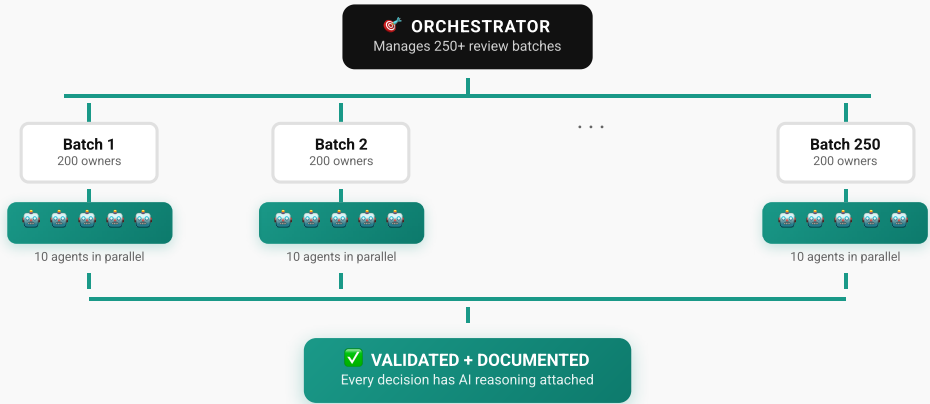The architecture that makes 125x cost reduction possible

AI AGENT REVIEW ARCHITECTURE

🎯 **ORCHESTRATOR**
Manages 250+ review batches

Batch 1
200 owners

Batch 2
200 owners

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Batch 250
200 owners

10 agents in parallel

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✅ **VALIDATED + DOCUMENTED**
Every decision has AI reasoning attached

50,000+
DECISIONS REVIEWED

100%
COVERAGE

~$200
TOTAL API COST

🤖 AI Agent Reasoning Example
Not just string matching — understands business context

RECORD 1	RECORD 2
SMITH JOHN JR	**SMITH JOHN SR**
Dallas, TX	Dallas, TX

Algorithm Decision: CONSOLIDATED (same person)

> "These are generational suffixes (JR vs SR), indicating father and son — technically different people. However, for **lead generation purposes**, this is CORRECT. Reaching either JR or SR accomplishes the business goal."

✓ CORRECT   AI applies business judgment, not just string matching rules

5-STEP PIPELINE

1	**Fix Collision IDs** Separate people sharing an ID	51.6K
2	**Consolidate Unstable IDs** Merge same person's records	99.6K
3	**Cross-Reference Check** Find cross-workflow duplicates	3.7K
4	**Match Stable Records** Connect clean records to groups	1.39M
5	**Apply Exclude List** Match do-not-contact owners	4,817

WHAT YOU GET

💾 **Master Owner Database**
1.25M unique owners, production-ready

📋 **Full Audit Trail**
AI reasoning for every decision

🚫 **Exclude Integration**
4,817 owners auto-suppressed

🐛 **Error Detection Report**
268+ systematic issues fixed

TECHNOLOGIES & SKILLS

AI Agent Development   Data Management   Data Cleaning   Entity Resolution

Snowflake   Python