

Brochure

Agentic AI For ETL Modernization

# Modernize Legacy ETL to Databricks Faster and Safer with Alcazar ETL



## Introduction

Alcazar ETL is LTIMindtree's extract, transform, load (ETL) automation framework that converts legacy ETL workloads into modern Databricks pipelines. It accelerates ETL modernization by utilizing reusable AI agents and human-in-the-loop validation to minimize manual rewriting efforts. The framework understands existing logic, generates equivalent code, and enforces governance, allowing teams to modernize while protecting performance, data quality, and compliance obligations.

## Business Problem

As organizations scale analytics and AI on Databricks, legacy ETL platforms often become a bottleneck, slowing modernization, increasing costs, and adding migration risk. This slows modernization programs and increases delivery risk.



### High rewrite complexity

Legacy ETL jobs contain years of accumulated patches, custom logic, and vendor-specific details. Rebuilding them manually is slow, error-prone, and hard to estimate.



### Limited ability to grow at scale

Older ETL designs struggle with higher data volumes and new sources. This holds back analytics use cases and delays business commitments.



### Quality and compliance risk

Manual conversion risks broken logic, missing controls, and inconsistent results across environments. Defects in production impact data quality, reporting, and regulatory confidence.



### Modernization timelines that keep slipping

Teams spend months reverse engineering jobs, reimplementing mappings, and retesting. ETL modernization projects stall, and promised benefits for business users arrive late.

## Our solution

Alcazar ETL accelerates modernization while keeping subject matter experts in control, allowing teams to move faster without compromising logic, performance, or governance.



### AI agents that understand existing ETL logic

Specialized agents read jobs, mappings, and workflows, then generate equivalent Databricks code and configurations that reflect the original intent.



### Human-in-the-loop for critical decisions

Experts review, adjust, and approve suggested conversions through guided workflows. This keeps knowledge in the loop and avoids blind automation. Engineered for Databricks and cloud data platforms

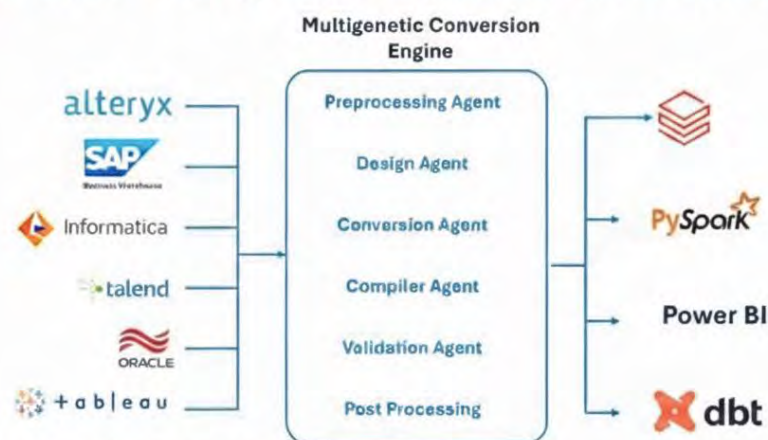
Alcazar ETL supports multiple ETL sources and cloud data stores, allowing organizations to modernize their diverse estates consistently.



### Framework & LLM agnostic:

Works with CrewAI, LangGraph, LangChain; and compatible with other enterprise-approved LLMs.

## Alcazar- An Agentic AI framework to accelerate ETL Modernization



Conversions and Conversations





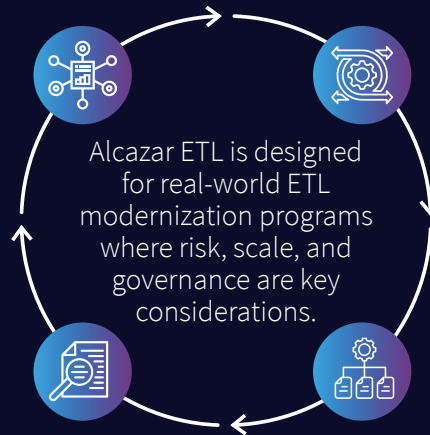
## Key Differentiators of Alcazar

### Unified Agent Framework

Uses reusable agents and rules that adapt to different ETL patterns and vendors.

### Human Oversight

Involves subject matter experts at key decision points to validate and refine conversions.



### Flexible Across Tools

Supports multiple legacy ETL technologies and cloud platforms in one modernization approach.

### Pluggable LLM and Orchestration

Allows switching large language models or orchestration frameworks without redesigning conversion logic.

## Business Benefits

Organizations using Alcazar ETL accelerate modernization programs, reduce migration risk, and unlock Databricks value faster.



### Up to 60% ETL automation

Automates repetitive conversion tasks and code generation, so teams spend more time on design, optimization, and new use cases.



### New sources are integrated in 8 to 9 weeks

Adapts the solution to new data sources for Databricks conversion within 8 to 9 weeks, ensuring modernization pipelines remain operational.



### 2X faster deployment of modern workloads

Delivers converted Databricks pipelines to production at roughly twice the speed of manual rewrites, compressing overall modernization timelines and benefits realization.

## Why LTIMindtree



Recognized as Databricks Business Transformation Partner of the Year in 2024 and 2025, demonstrating our leadership in automation-led data modernization.



Global scale with more than 86,000 professionals across over 40 countries, partnering with 700+ clients to solve complex data and AI challenges.



Proven outcomes in data modernization programs, including 95%+ data accuracy and multi-year cost savings for enterprise clients.

## Ready to Accelerate Your Modernization Journey?

Our teams can help you assess your current ETL landscape, identify automation potential, and run a pilot tailored to your environment.

Contact us at [data.analytics@ltimindtree.com](mailto:data.analytics@ltimindtree.com)

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