

## Case Study

# ETL Automation for Onboarding School Districts

**Magic  
EdTech**

### The Client

Our client is a leading data analytics organization specializing in school improvements.

### The Challenge

The client faced challenges in onboarding new school districts efficiently. The manual execution of this process demanded a linear scale-up to meet the growing demand. Seeking a technology partner with expertise in Big Data & Analytics and Education, they approached Magic for a swift and seamless solution.

### Critical Success Parameters

- ✓ One Week Turnaround SLA: Mission-critical for onboarding school districts within a week.
- ✓ ETL Process Optimization: Crucial for clearing the backlog of onboarding 120+ school districts within 6 months.
- ✓ Establish ETL Centre of Excellence: The ultimate goal for customizing processes and ensuring execution efficiency.

### Our Approach

- ✓ Data Research and Analysis: In-depth study of SnapLogic's reference implementation, identifying data inconsistency patterns across 120+ districts.
- ✓ Customized Integration: Integration of information from multiple sources into a different format, followed by data cleaning based on databases and business rules.
- ✓ Optimized Data Pipelines: Utilization of SnapLogic capabilities to build 700+ data flows, optimizing processing costs for large datasets.



### Key Result Highlights

**700+** Business Data Flows:  
Efficient use of SnapLogic capabilities, producing expected integration outcomes.

**3 GB+** Data per Pipeline:  
Utilization of ETL process parallelization for handling large datasets with minimum cloud computing resources.

**150,000** Records/Minute:  
Streamlined integrations, automating data migration and processing 120+ districts with a remarkable output.

**40%** Improvement: Order fulfillment ETL process significantly accelerated, reducing the time spent on moving data into Google Sheets.

Automated integrations and business templates reduced manual data entry processes, optimizing overall execution time by **40%**.