



# Educational Data Processing Automation

Services: **Analytics and decision support**



## Context

An education environment managing reporting across 55,000 students and 13 campuses relied heavily on manual Excel-based processing for course activity and completion reporting. This created long turnaround times, avoidable manual effort, and increased risk of inconsistency.

## Solution

Built workflow automation and reporting pipelines to replace manual spreadsheet processing with cloud-based data workflows and R Shiny dashboards. The solution automated the preparation and delivery of course activity, completion, and progress reporting, reducing dependence on fragmented manual handling.

## Impact

Reduced report generation time from two days to ten minutes while improving reporting accuracy and consistency. The automation created a far more scalable reporting process and freed up significant operational time previously spent on manual data preparation.