



MASTERING DATA IN HIGHER EDUCATION

No code data transformation and machine learning. Despite recent advancements in technology, the education sector has struggled to capitalize on opportunities afforded by data analytics. It is not uncommon for educational institutions to make decisions that are based on assumptions, rather than using insight generated from machine learning models.

At Altair, we understand that smart decisions can be made only when disparate data related to people and processes is used to generate and share insight. We offer a suite of data transformation and machine learning tools that empower educational institutions to unlock the value in their data, enabling improvements in teaching approaches and academic operations management.

Altair Data Analytics reduces the burden on IT and democratizes problem solving by consolidating, validating, and integrating information residing in data silos.

A broad set of people are empowered to collaborate efficiently. They can discover and share actionable insight from trusted, accurate and governed data, essential to informed decision making. With over 30 years of experience, Altair has helped government agencies and education institutions solve difficult data challenges and uncover information hidden in data.

Overcome Challenges with Legacy IT Solutions

Aging IT infrastructure and legacy applications have held many educational institutions back from implementing new technologies.

Altair helps universities to:

- Access, extract, integrate and transform legacy data coming from old software solutions, legacy databases, and file-based sources with modern data streams
- Foster a collaborative environment in which data and machine learning models are easily shared and easily explainable to all
- Extend and scale data analytics into existing infrastructures and applications without requiring any coding

Automate

Data transformation and data modeling processes with:

- ERP systems (Ellucian Banner or Colleague, WorkDay, others)
- Legacy applications and data warehouses
- Student information systems
- Payroll and HR applications

Universities collect student data at various points of the student lifecycle, ranging from recruitment to alumni outreach. By integrating disparate data sources Altair Data Analytics enables self-service workflows to access, transform and predict outcomes with their data, offering end users the opportunity to make improvements to the learning experience without the complexity of IT needs or resources.



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Integrate

- Automated back office processing solutions
- Existing predictive and prescriptive analytic applications and infrastructures including Big Data and NoSQL solutions
- Popular BI tools such as Tableau, Qlik, PowerBI and others

Do More

- Ingest unstructured data such as text and PDF files, and convert to rows and columns
- Import existing analytic scripts, and generate models to a wide variety of analytic code languages for easy and seamless deployment
- Combine historical data with real-time data for continued intelligence

Where We Help

Accounting and Financial Close - Report reconciliation across ERP systems and legacy applications is often a very manual effort. Streamline your accounting activities, reconciliation process and financial close with Altair Data Analytics.

Institutional Effectiveness - Integrate disparate data and generate insight from machine learning around Student Headcount, Student Credit Hours, Degrees Conferred and more. Improve funding models and student/teaching experience using no code data transformation and machine learning.

Enrollment and Persistence - Enrollment accuracy is essential to the survival of any university. As such, most universities are under intense pressure to make accurate and informed enrollment decisions relying on their data. Altair Data Analytics allows for end to end analytics – leveraging the power of your existing data and putting it to work through predictive models to support enrollment initiatives.

Financial Aid and Grant Analysis - Accurately assessing projected financial commitment during the enrollment process is critical, with challenges around aggregating report and table data into a predictive model – a perfect use case for Altair Data Analytics.

Robotic Processing Automation (RPA) - Altair fits perfectly with RPA initiatives by automating repeatable data transformation processes using models that ensure standardized report formats designed to meet end user requirements. Free up resources and reduce errors with a proven solution in RPA architectures.

To learn more, please visit altair.com/data-analytics