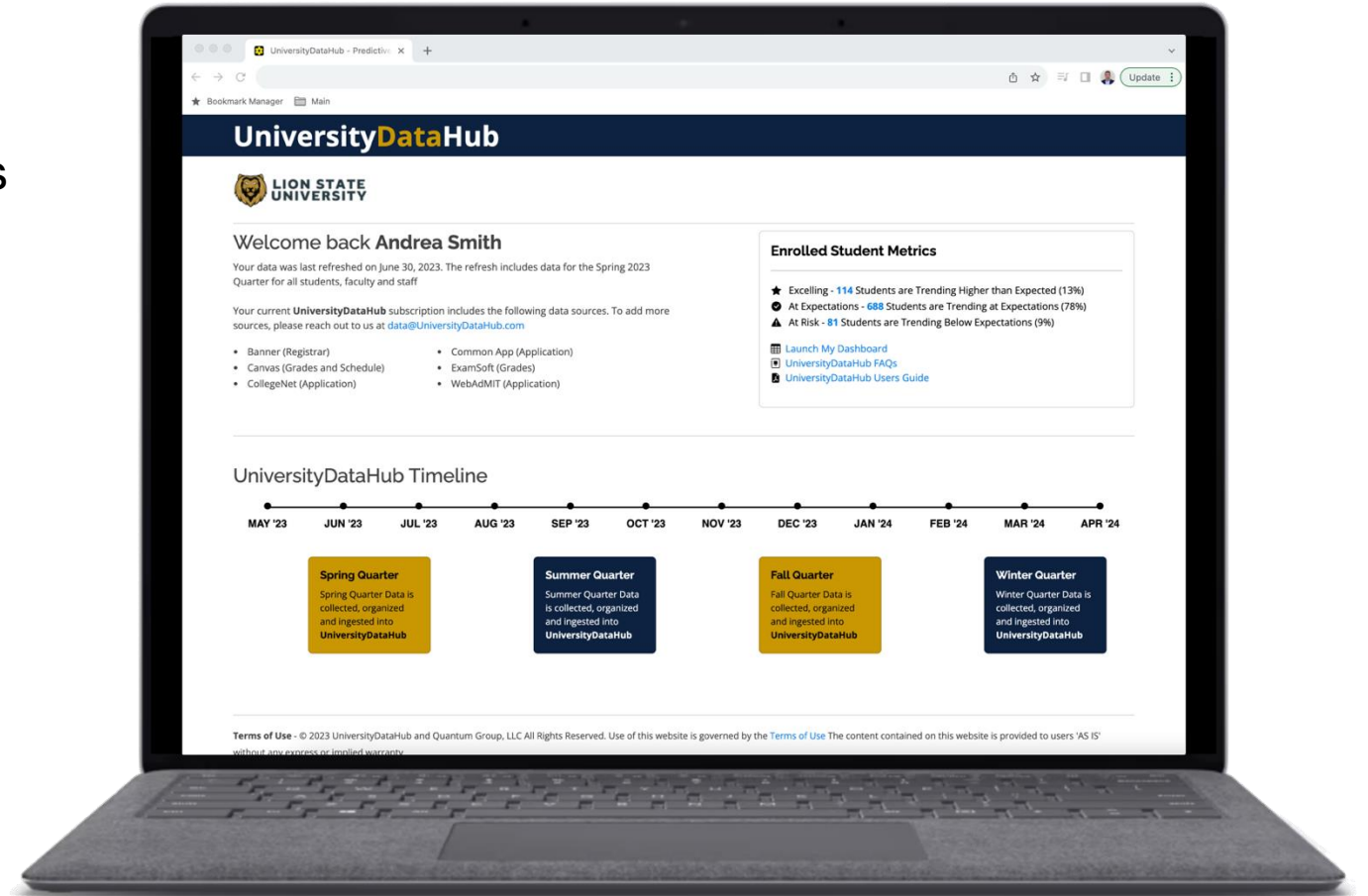


UniversityDataHub

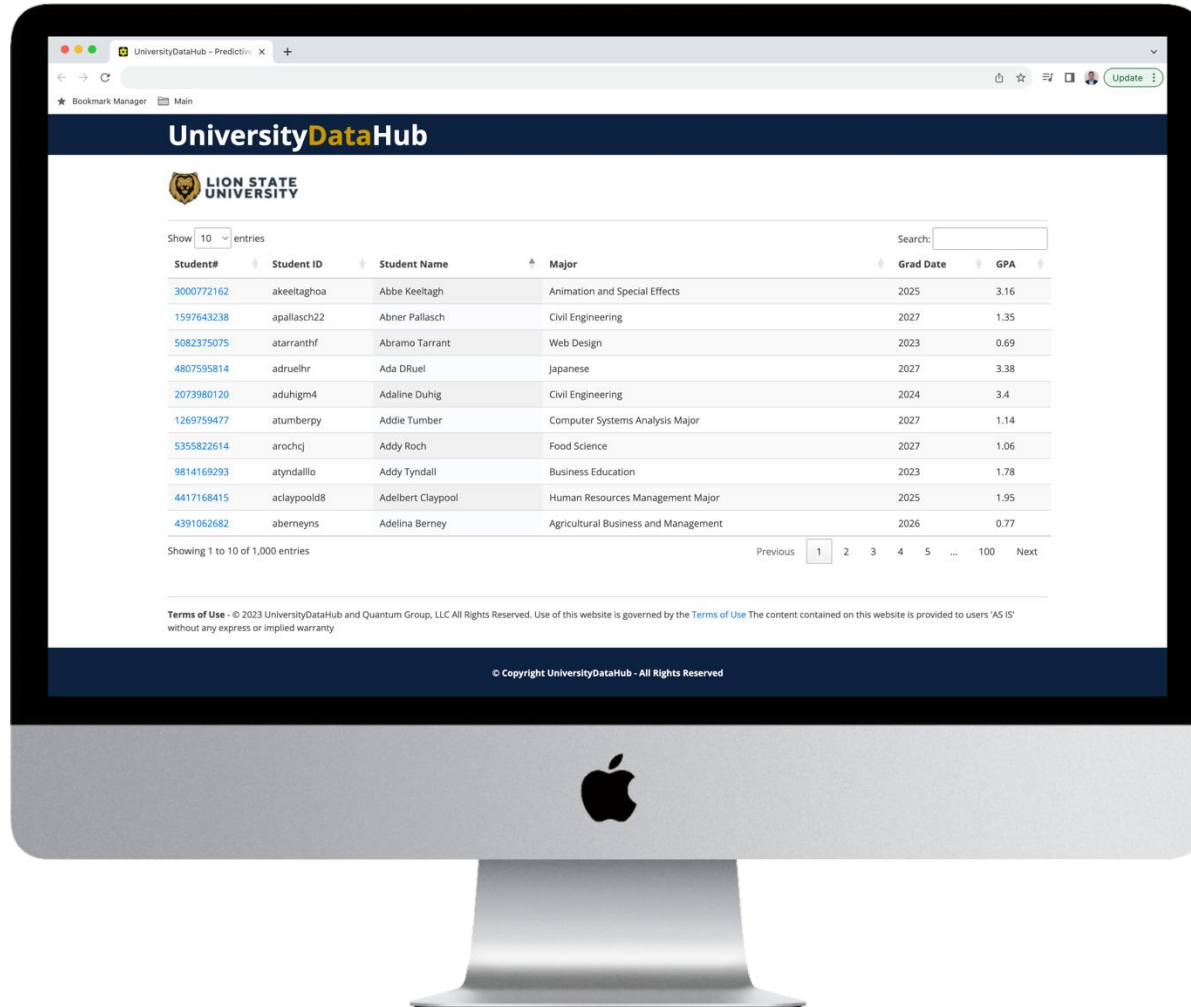
from the Quantum Group

Helping
Administrators
Help Students

UniversityDataHub is your all-in-one Data Integration, Data Standardization and Data Analytics platform. Sign up today and your Educators and Administrators will be utilizing UniversityDataHub metrics and analytics in as little as 30 days!



Overview



Enhance the Student Experience with UniversityDataHub

Data Insights

Based on historical trends and outcomes, **UniversityDataHub** can predict student success and failure rates. This allows time for Educator's to intervene

Data Reporting

UniversityDataHub provides standardized reporting to easily view student data and insights. Business Intelligence tools can consume the data for BI Reporting

Data Integration

UniversityDataHub integrates all your data sources into a single platform. Admissions, Registrar, Testing, Grades, etc. We link all the data points together during our ingestion process

Data Integration

Using our proprietary ingestion, matching and merging processes, **UniversityDataHub** can integrate data from any source system you desire. We leverage Application Programming Interfaces (APIs), Extract-Transform-Load (ETL) and Manual process to collect and collate the data you need



REGISTRAR DATA

Data collected Enterprise Resource Planning (ERP) and third party providers such as the Common App, CollegeNet, WebADMit, University specific application systems, etc



TESTING DATA

Student Course/Grade Data from applications such as Canvas, CourseBook, Examssoft, etc.
Pre/Post Admission testing data including PSAT, SAT, MCAT, ACT, NBME Step, NBME Subject, OSCE, etc



FOUNDATION & ALUMNI DATA

University Foundation data including Alumni Giving metrics collected from Blackbaud, CRM and home grown sources



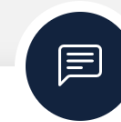
ATHLETICS DATA

Season ticket holders, Event Attendance metrics and other Athletic Association data



PUBLICATION DATA

Student, Professor and Staff publication data including Scopus and PubMed



OTHER DATA

Any additional third party or in house data including Student Surveys, Field and Rotation Data, Electronic Medical Record Data, etc

Data Analytics

Analytics and Insights

- **UniversityDataHub** can integrate data from hundreds of sources and give you the insights and details you need to make informed decisions
- Using our ingest, match and merge processes we compile complex data from many sources into easily understandable metrics and visuals



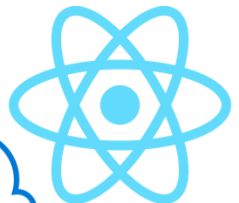
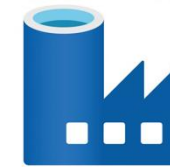
Tech Stack

UniversityDataHub Tech Stack

UniversityDataHub is built using the Microsoft Azure Tech Stack at its core, and leverages additional industry standard tools:

- Cloud Provider: Microsoft Azure
- RDMS : Azure SQL Server
- ETL/Pipeline : Azure Data Factory
- Files Share/Storage: Azure Storage
- Business Intelligence: Power BI
- Application Development: .NET, ReactJS
- Statistical Forecasting: Python, R
- Datafile Types: XLSX / CSV / XML / JSON

Tech Stack



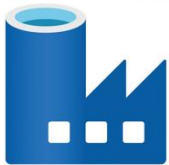
Tech Stack

UniversityDataHub is not merely an analytics and dashboard solution. It is a data integration and cleanse platform comprised of four main components

1

Data Ingestion RAW Layer

The **RAW** layer is where UniversityDataHub ingests your subscribed to data using Extract-Transform-Load, API and manual processes



2

Data Standardization & MDM CLEANSE Layer

The **CLEANSE** layer is where UniversityDataHub Standardizes, Cleanses and performs Master Data Management processes on your data



3

Data Integration INTEGRATED Layer

The **INTEGRATED** layer is where UniversityDataHub joins, synchronizes and integrates different data sources. Linking the data sources together



4

Data Share API Services and Data Shares

The Data Service layer allows third party tools to consume your UniversityDataHub data through a variety of different methods

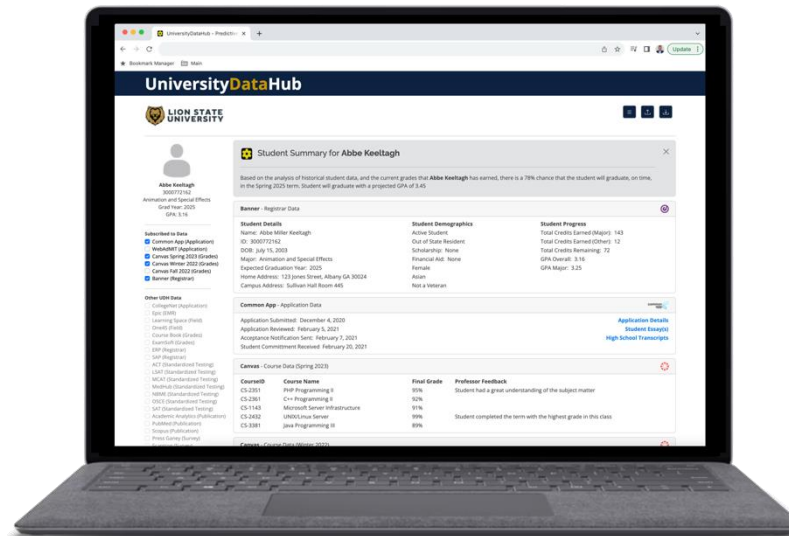
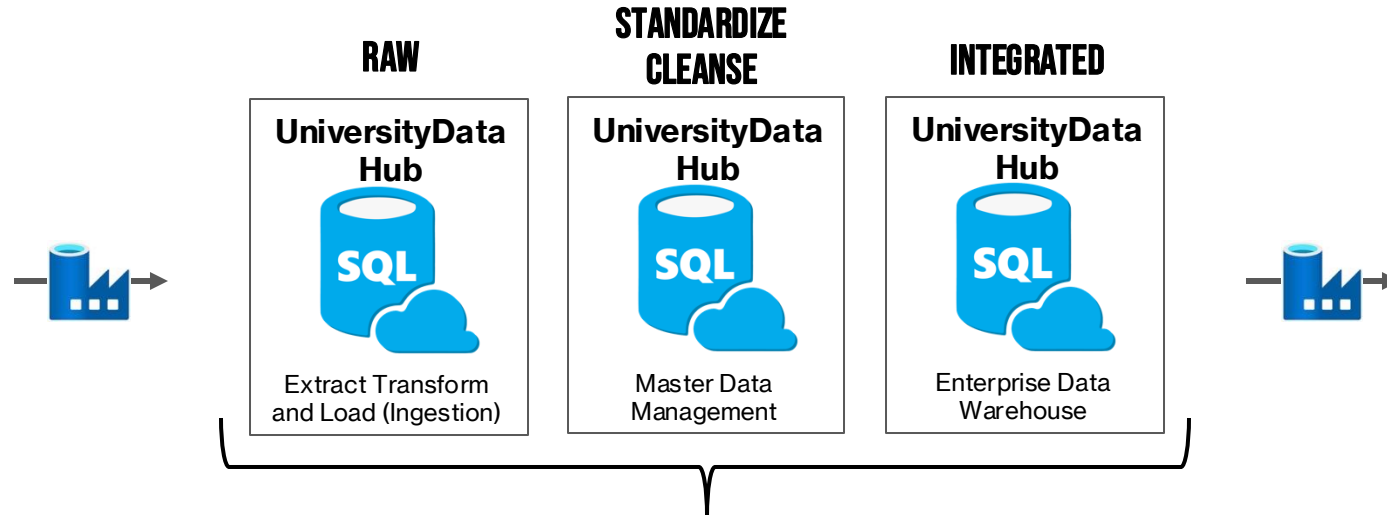


SOURCE DATA

Proprietary and Vendor Data (Examples)

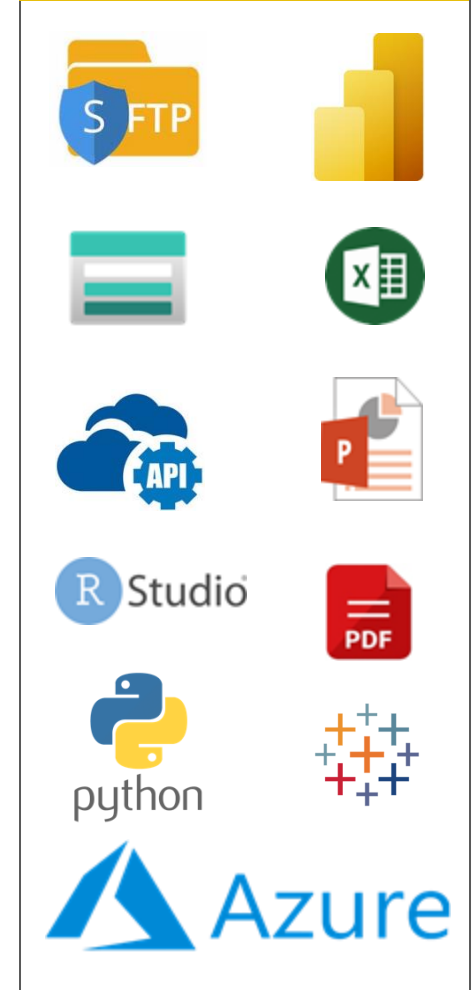


Tech Stack



DATA CONSUMERS

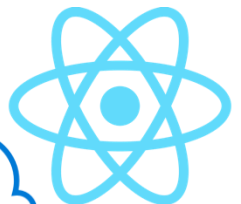
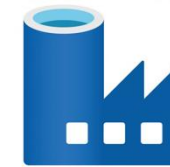
Data Share, API Service, Analytics



What's Included

UniversityDataHub

- Cloud Environment Setup
- Cloud Environment Hosting
- Cloud Environment Maintenance
- Database Hosting and Setup
- BI Tool Setup
- Application Programming Interface (API) Service
- Data Cleansing
- Data Integration / Ingestion
- Data Mastering
- Data Standardization
- Predictive Analytics
- Standardized Reporting
- Tech Support



Student Scorecard

Student Scorecard (Examples)

- Detailed Student Demographic Information
- List of Subscribed Data Sources
- Predictive Analytics
- Source Details Displayed in Distinct Panels
- Drill down Features for Specific Sources
- Data Download

Student Scorecard

The screenshot displays the UniversityDataHub interface for a student named Abbe Keeltagh. The page is titled "Student Summary for Abbe Keeltagh" and includes a predictive analytics statement: "Based on the analysis of historical student data, and the current grades that Abbe Keeltagh has earned, there is a 78% chance that the student will graduate, on time, in the Spring 2025 term. Student will graduate with a projected GPA of 3.45".

The interface is divided into several sections:

- Student Details:** Name: Abbe Miller Keeltagh, ID: 3000772162, DOB: July 15, 2003, Major: Animation and Special Effects, Expected Graduation Year: 2025, Home Address: 123 Jones Street, Albany GA 30024, Campus Address: Sullivan Hall Room 445.
- Student Demographics:** Active Student, Out of State Resident, Scholarship: None, Financial Aid: None, Female, Asian, Not a Veteran.
- Student Progress:** Total Credits Earned (Major): 143, Total Credits Earned (Other): 12, Total Credits Remaining: 72, GPA Overall: 3.16, GPA Major: 3.25.
- Common App - Application Data:** Application Submitted: December 4, 2020, Application Reviewed: February 5, 2021, Acceptance Notification Sent: February 7, 2021, Student Commitment Received: February 20, 2021.
- Canvas - Course Data (Spring 2023):** A table showing course performance.

| CourseID | Course Name | Final Grade | Professor Feedback |
|----------|---------------------------------|-------------|-----------------------------------------------------------------|
| CS-2351 | PHP Programming II | 95% | Student had a great understanding of the subject matter |
| CS-2361 | C++ Programming II | 92% | |
| CS-1143 | Microsoft Server Infrastructure | 91% | |
| CS-2432 | UNIX/Linux Server | 99% | Student completed the term with the highest grade in this class |
| CS-3381 | Java Programming III | 89% | |

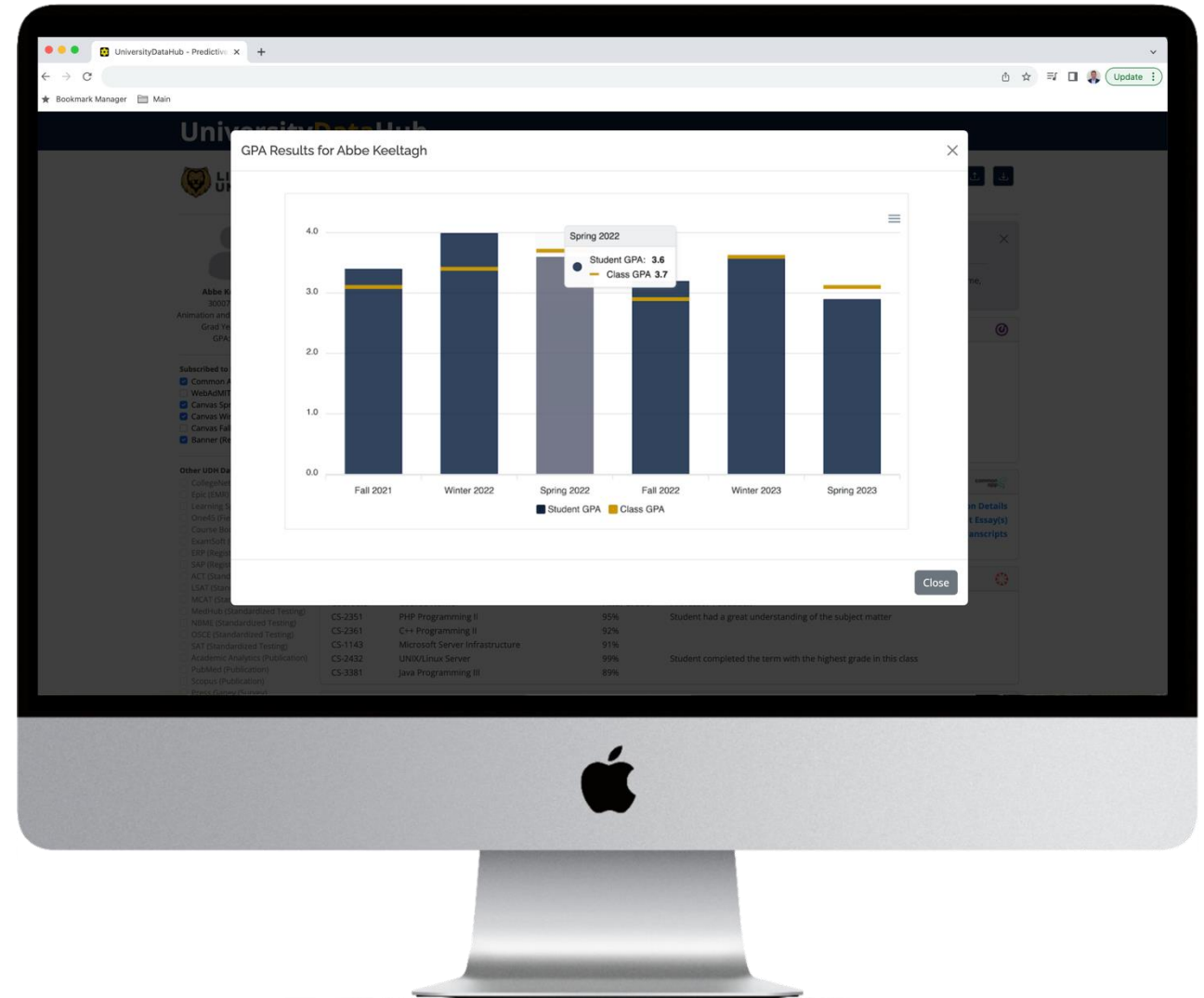
The interface also features a sidebar with "Subscribed to Data" and "Other UDH Data" sections, each containing a list of data sources with checkboxes for selection. The "Subscribed to Data" list includes Common App, WebADMIT, Canvas Spring 2023, Canvas Winter 2022, Canvas Fall 2022, and Banner (Registrar). The "Other UDH Data" list includes various standardized tests, publications, and surveys.

Metrics and Visuals

Metrics and Visuals (Examples)

- Charts and Graphs to Detail Metrics
- Drill Down Features
- Drill Through Features
- Customizable Field Selection
- Data Download for Integration with Other Tools
 - Power BI
 - Tableau
 - Excel
 - PowerPoint

Metrics & Visuals



**Thank You
For Your Interest**