



Open Education Analytics modern data estate for education



Dispersed data prevents strategic use of data and Al



EDUCATION'S CHALLENGES WITH DATA AND AI



Datasets are dispersed and poorly governed



Concerns over data privacy and ethical use of Al



Low organizational expertise in learning analytics and Al



Getting started is overwhelming

What is Open Education Analytics



OPEN EDUCATION
ANALYTICS
TECHNICAL
RESOURCES AND
COMMUNITY



ROLE AND TECH
TRAINING:
CAPACITY-BUILDING
ON LEARNING
ANALYTICS AND AI



PRINCIPLES OF RESPONSIBLE DATA AND AI APPLIED TO EDUCATION

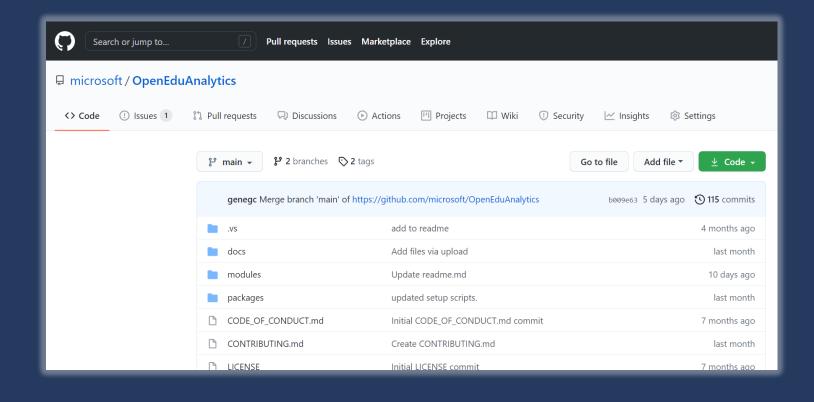


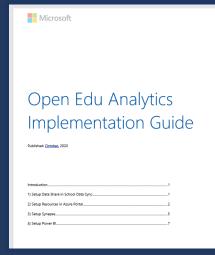
SHARED
LEARNING
ANALYTICS AND
AI USE CASES IN
COMMUNITY

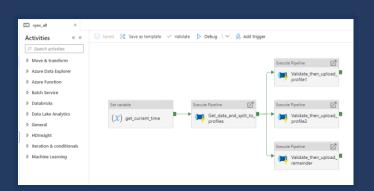


OPEN EDUCATION ANALYTICS TECHNICAL RESOURCES AND COMMUNITY

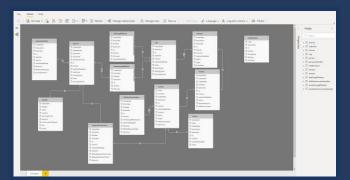
Open resources on GitHub: Pre-made data pipelines, scripts, analytics notebooks, test data, dashboards, data models, and reference architecture







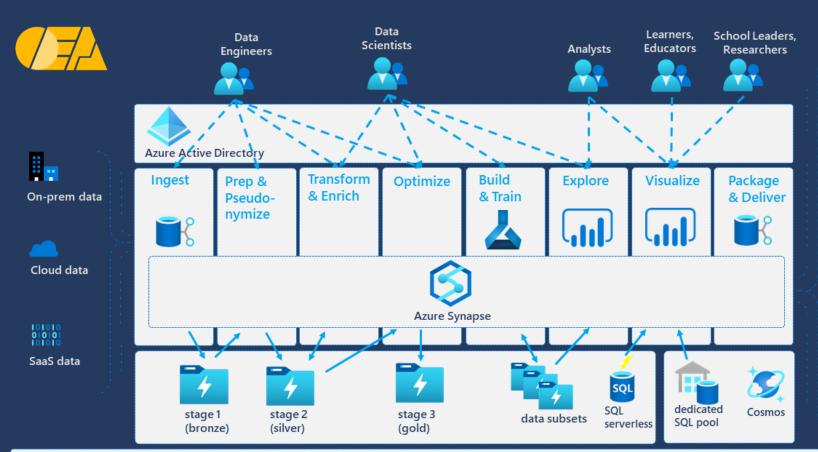






OPEN EDUCATION ANALYTICS TECHNICAL RESOURCES AND COMMUNITY

Open reference architecture for establishing the modern data estate using Azure cloud data and AI services





Personalized Learning Pathways



Realtime Data Dashboards



Open Data for Research and Eval



State, Province and National Reporting

Discover & Govern





OPEN EDUCATION
ANALYTICS
TECHNICAL
RESOURCES AND
COMMUNITY

Solving the problem with an open community

standards

best practices

- data standards (at rest, in transit)
- process standards (ethical use, dev cycle, testing)
 - ethical use
 - ref architecture, ref implementation
 - dev process (dev cycle, testing strategy, releases)
 - training

rapid iteration/ emergent design

modern tech

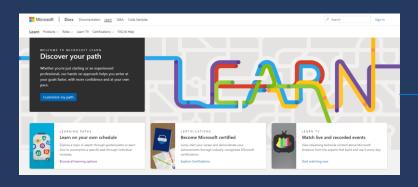
- sandbox env, test data sets
- evolve schema
- emphasis on build-learn-improve
 - cloud-based (low cost, infinitely scalable)
 - easy setup (setup scripts, infrastructure as code)
 - easy maintenance (auto-scale, monitoring)
 - easy to extend (extensible arch, add-on modules)

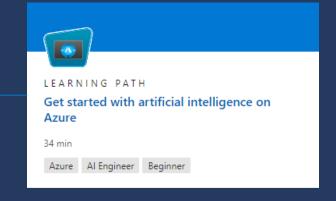
ecosystem / global community

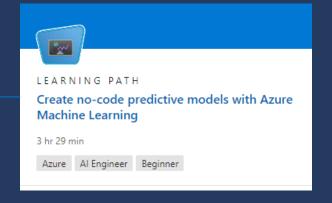
- customers, SI's, ISV's, standards bodies, policymakers
- focus on sharing, collaboration



ROLE AND TECH
TRAINING:
CAPACITY-BUILDING
ON LEARNING
ANALYTICS AND AI









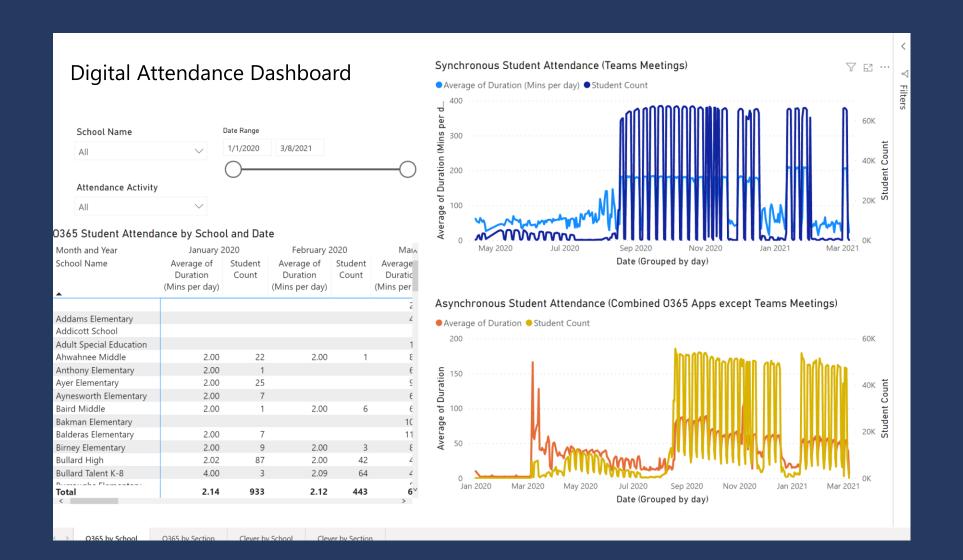
PRINCIPLES OF RESPONSIBLE DATA AND AI APPLIED TO EDUCATION



document analytical methods for **transparency**

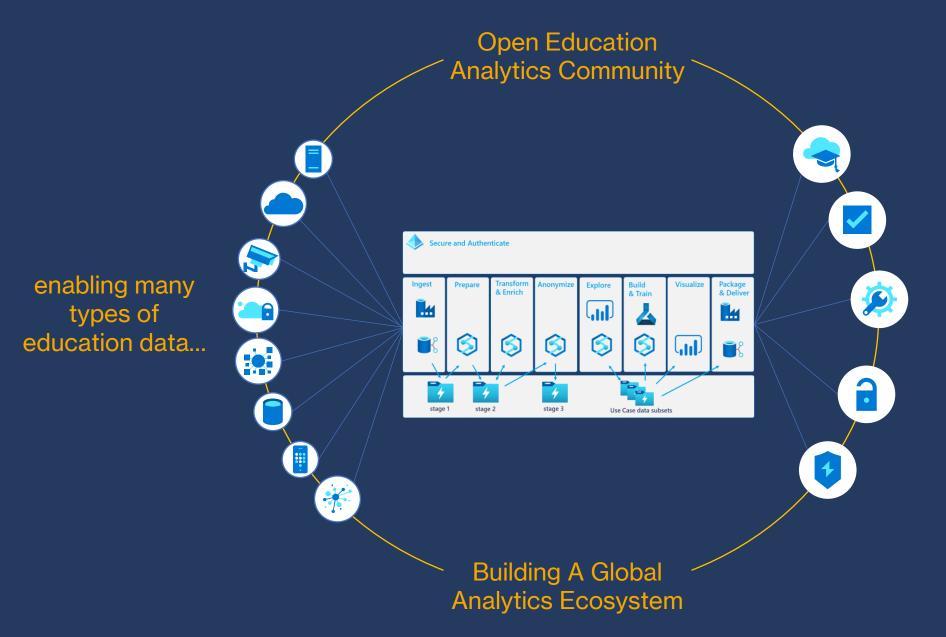
pilot Al experiences, iterate with feedback

Monitor Al system for **accountability**





SHARED
LEARNING
ANALYTICS AND AI
USE CASES IN
COMMUNITY



...to be used for many different scenarios

Join Open Education Analytics at

https://github.com/microsoft/OpenEduAnalytics.