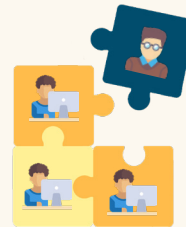# How the education industry can benefit from predictive analytics

Helping educators personalize the learning experience, provide high-quality instruction, and make accurate pedagogical decisions.

Analance

PROJECT	PROBLEM	ANALANCE SOLUTION

OPTIMIZE DRUG DEVELOPMENT

60% of students from Personalized Learning schools surpassed non-PL students in terms of mathematics and reading.
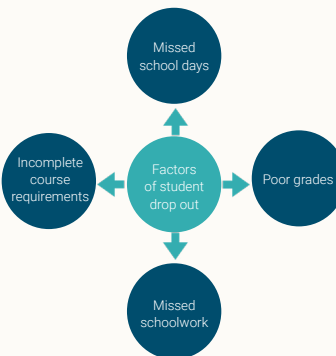
There is often a disparity in the learning style between teachers and students.

Identify patterns from student data and use the clustering method to segment students by their learning ability, style, preference, and performance. Get insights into students' strengths and weaknesses to enable educators to create an effective learning environment to maximize student learning experience and boost engagement.

PREDICT SITE HEALTH FOR CLINICAL TRIALS

6.1% Dropout rate in 2016

Factors of student drop out
- Missed school days
- Incomplete course requirements
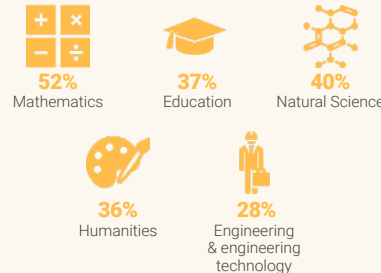- Poor grades
- Missed schoolwork

Get profound insights into the potential academic performance of a student based on certain parameters. Predict those who are likely to be high performers and those who are at-risk of dropping out. Enable educators to take precautionary measures by devising a study plan to proactively help the student improve.

PREDICT DRUG EFFECTIVENESS

Major?

30% of undergraduates change their major at least once within 3 years of intial enrollment.

MOST LIKELY TO CHANGE MAJORS

- **52%** Mathematics
- **37%** Education
- **40%** Natural Science
- **36%** Humanities
- **28%** Engineering & engineering technology
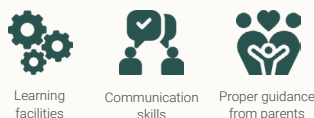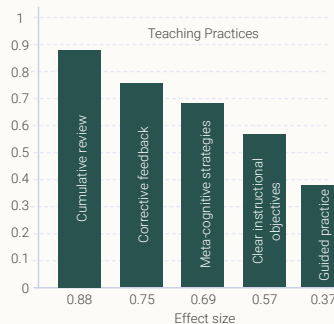
Predict course effectiveness by determining factors contributing to drop out rates. Analyze student historical data and external factors like employment trends to identify areas of focus. Enhance curriculum and improve learning materials to personalize and design intelligent courses to bring the best out of every student.

IMPROVE SALES OPERATIONS AND PERFORMANCE

81% of secondary schools are poorly managed.

TOP 3 FACTORS OF STUDENT PERFORMANCE:
- Learning facilities
- Communication skills
- Proper guidance from parents

EFFECT OF TEACHING PRACTICES ON STUDENT ACADEMIC ACHIEVEMENT

Teaching Practices

Effect size	
Cumulative review	0.88
Corrective feedback	0.75
Meta-cognitive strategies	0.69
Clear instructional objectives	0.57
Guided practice	0.37

Identify patterns from educational and behavioral data to pinpoint the factors that contribute the most to high academic performance and general student effectiveness. Insights gathered can help educators evaluate current educational practices and determine the areas that are working or those that need improvement.

For more information, call us at 1-844-Ducen IT or visit www.analance.com

DUCEN A Sryas Company

A DATA SCIENCE PLATFORM

THAT COMBINES ADVANCED ANALYTICS AND BUSINESS INTELLIGENCE INTO A SINGLE PLATFORM

- An end-to-end enterprise analytics platform
- Code free and code friendly capabilities
- Built for all types of users
- Out of the box ML algorithms

- Advanced visualization library for dashboarding and reporting
- Enterprise-ready performance that supports scalability – ML-driven analytics
- Lower TCO by reducing duplicate investments and labor overhead costs
- Strong data governance supporting strict compliance

ANALANCE ADVANCED ANALYTICS
Predict business outcomes with machine learning algorithms.

ANALANCE BUSINESS INTELLIGENCE
Analyze and visualize raw historical data to descriptive analytics.

More Solutions

https://analance.ducenit.com/solutions

Proof of Concept

https://analance.ducenit.com/proof-of-concept

Demo

https://analance.ducenit.com/get-a-demo

Try Analance for free

https://analance.ducenit.com/free-cloud-trial

ABOUT DUCEN

Ducen is a trusted technology solutions provider that aims to empower Fortune 1000 companies through quality solutions and services. Headquartered in Boca Raton, Florida, we help organizations simplify data management, secure business processes, and deliver insights – all in an effort to drive business outcomes and enhance the customer experience. Through our enterprise analytics platform, we build and manage data-driven digital platforms including business intelligence and advanced analytics solutions. We also offer a comprehensive services portfolio covering data management, cybersecurity, and applications development services to help clients stay ahead of the technology curve.

For more information please visit **www.analance.com**