

Case Study

Generating a self rehydrating data lake for the educational services industry.



<https://datasocle.com>



**The Smartest way to feed
your information systems
with sensible data.**

Data Socle is business logic driven data processing system that automates extraction, sanitization, customization and usage of data.



The Problem

Data generation & collection in the educational services industry is eclipsed by noise. More often than not, creating a data lake has been an arduous task. Some of the main challenges are :

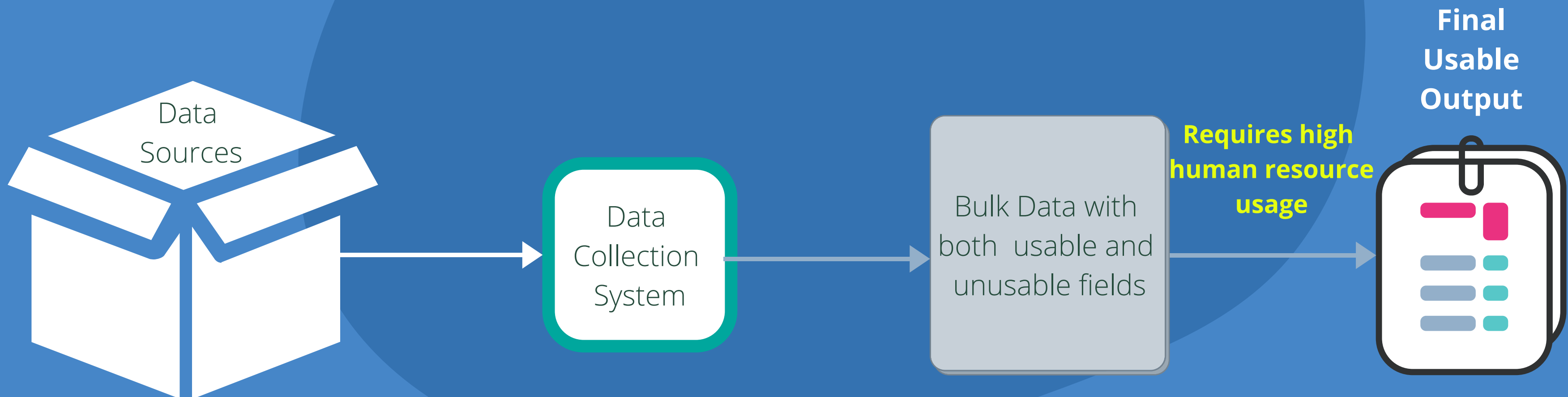
1. Collection of a large percentage of unnecessary redundant data.
2. Inability analyze data due to lack of granularity.
3. Expiration of data and changes in data sources causing data to be unusable.

Redundant Data

Data Collection in the education industry is marred with lots of unusable data points;

For example student entry requirements can be IELTS + SAT for one university while IELTS / SAT for another university. Traditional Data collection systems cannot differentiate between the two.

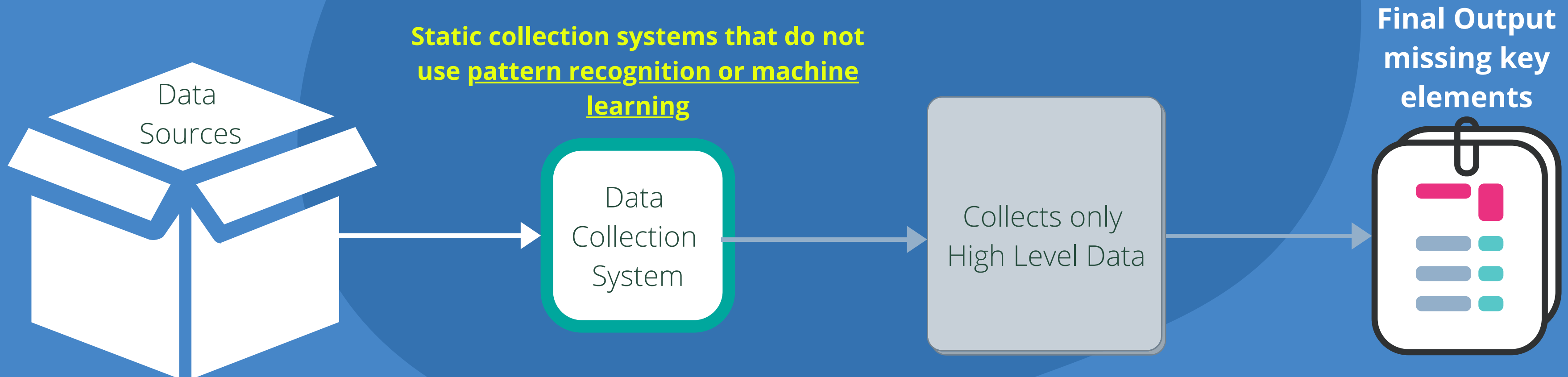
It takes hundreds of man hours to then sort this data manually and filter out the useful information.



Lack of Granularity

Some of the most important pieces of data required by organizations like eligibility requirements for scholarships or updates about success stories from alumni cannot be captured by traditional systems due to a high degree of variance in the format, design and presentation of the data source (The University website or social media handles)

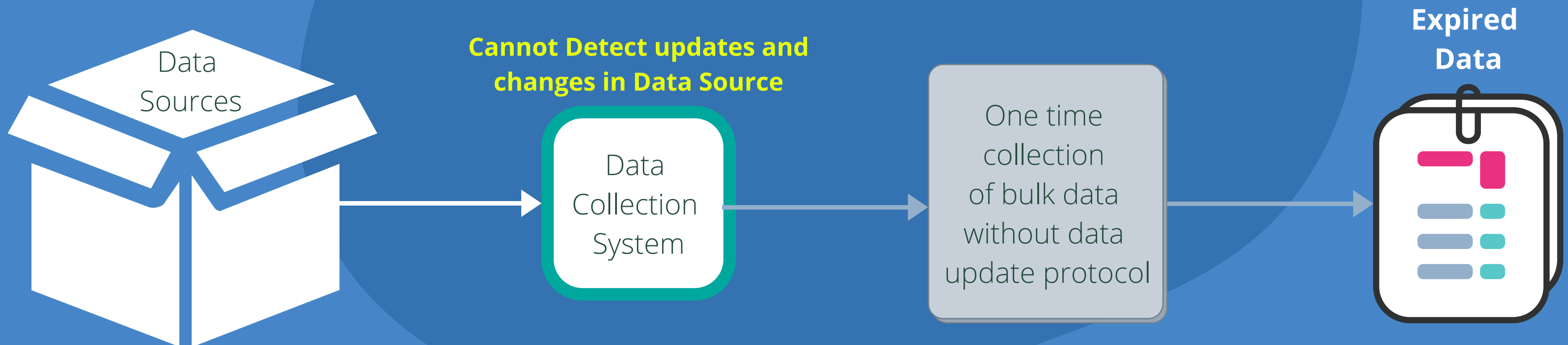
Losing out on vital information like this can eventually lead to a drop in student engagement rates.



Expired Data & Sources

Perhaps the most persistent problem that consumes the largest amount of time and capital in the educational services industry is tied to its inability to keep their data lake updated. As Universities update their websites, course details, fees and various other components of their educational offering, some of the biggest players in this sector provide data that is at least 30+ months old.

Traditional Data Collection Systems cannot detect changes and updates in the data source, which means expired data remains in the system for a long time.





We've used Data Socle to solve these issues.

By using Data Socle's Artificial Intelligence core, powered by Machine Learning and Pattern Recognition, we have built a system that automatically :

1. Recognizes & extracts the required, useful data from a preplanned template. (Zero Redundancy)
2. Uses pattern recognition to transcend the barriers of formats and localization to provide the most granular data, quickly and consistently;
3. Checks the data sources frequently to ensure all data points are validated and updated.

Results

Automation

The customer can now use Data Socle to directly extract, sanitize, customize and reuse data about universities in their website. We have automated this flow such that, there is no requirement for any human to validate or check the data. Data Socle automatically refines the data and provides it in a JSON format used in the website.

Updation

We've integrated Data Socle to the customer website such that, any changes detected in the data sources is automatically updated in the website on a weekly basis. There is no question of expired data and we at Data Socle can ensure data relevance.

Analytics

By providing a set of highly granular error free data, our customer is now able to reliably use the data set to run advanced analytics which was impossible with the previous system. Data Socle has enabled our customer to provide more value and engagement to students by providing unique insights and enhanced information.

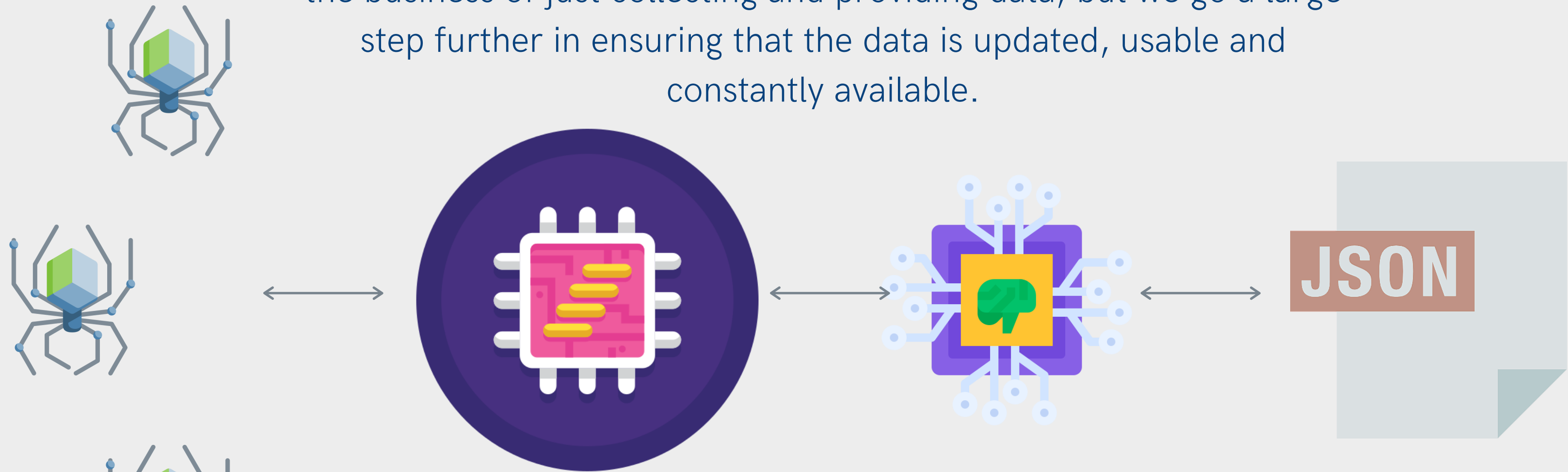
The Financial Perspective

A quick summary of the amount of capital our customer in the education industry was able to save through this initiative with Data Socle.



How does this work?

Unlike traditional data collection systems, we at Data Socle are not in the business of just collecting and providing data, but we go a large step further in ensuring that the data is updated, usable and constantly available.



Our crawling spiders powered by a proprietary Machine learning core analyzed and crawled 1000's of data sources, from more than 1600 universities to detect and formulate a pattern to collect the most granular level of data.

The Data Processor then filtered the data into a structured format (JSON) in this case, with all the necessary information being automatically updated on a monthly basis.

Traditional Data Collection Systems



- Requires constant human intervention and effort.
- Requires constant updates and maintenance.
- Delivers a result that requires rework.

- One time setup, requires little to no maintenance.
- It's fully automated, updated data is guaranteed.
- Integrates with any existing information system seamlessly.

Education Industry & Beyond



Data reserves is as important as financial reserves in 2020. In this day of data running business decisions, building a data lake is the utmost priority of CXO's across the world.

If you are in the Education / Educational services industry looking to provide more value to your business or to your customers through data science, Data Socle is the smartest solution available in the market today for you to build a data lake and keep it hydrated.

Setup a demo with us or log on to <https://datasocle.com/> for a free demo. We take pride in the fact that we can help you look at data with a fresh, new perspective.



Contact Us for a Demo,
Proof of Concept or
Custom Requirements.

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