

Phases of AI development



Phase 1 Assembling

- Have an understanding of the problem to be solved
- Have internal champions (commitment)
- Has access and plans to obtain data



Phase 2 Building

- Possesses AI & ML talent
- Has models (in test or in production)
- Generating data from applications

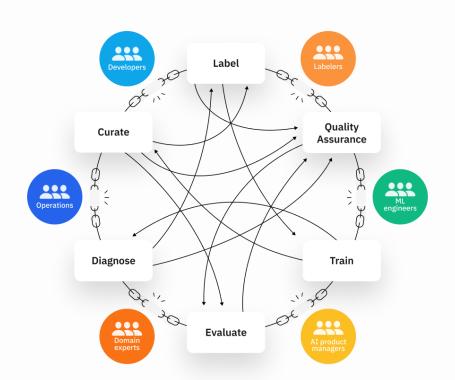


Phase 3 Productionizing

- Constantly training models (Refreshing data regularly)
- Labeling spend (dedicated budget and need for labeled data is exponential)
- Iterating & improving quality

Prototypes are easy.

Production AI is hard.



Companies with the best training data produce the most performant models



Free

Algorithms

State of the art deep learning algorithms are free and readily available.



Commodity

Compute

Effective AI computation is doubling every 3-6 months.

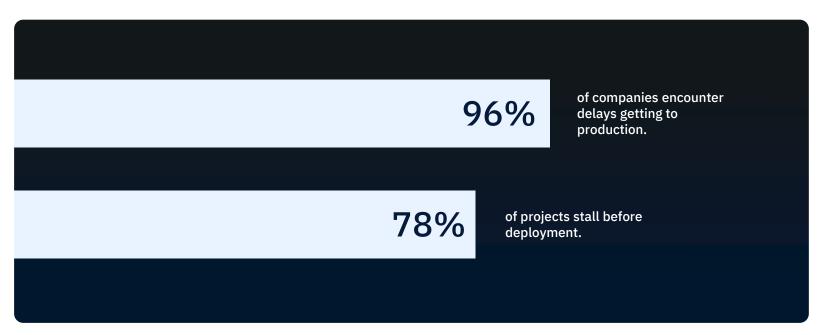


Proprietary

Data

Training data is the new code. It is what makes AI work in the real world

Converting proprietary data into revenue-generating AI is challenging

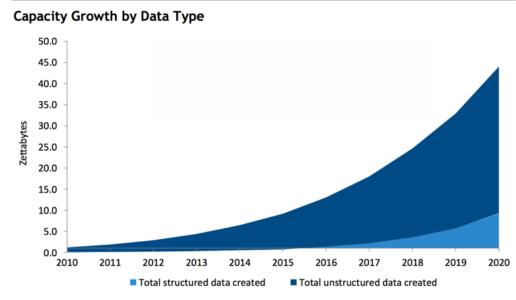


Source: Algorithmia 2020 State of ML Survey

The Value of Unstructured Data

- Unstructured data makes up almost 80% of an enterprise's data
- Extracting the value from this data has been difficult as it involves complex and time consuming data analytics processes
- Change is afoot recent technologies make this data easier to leverage than ever:
 - -Internet of things(IOT)
 - -Machine Learning
 - -Computer Vision
 - -Document Understanding/ NLP

FIGURE 1



Source: IDC, 2016

Managing training data requires significant time & resources

3% ML Algorithm Dev.
5% Data Identification
5% ML Model Tuning
10% ML Model Training
10% Data Aggregation
15% Data Augmentation
25% Data Labeling
25% Data Cleansing

2% ML Operationalization

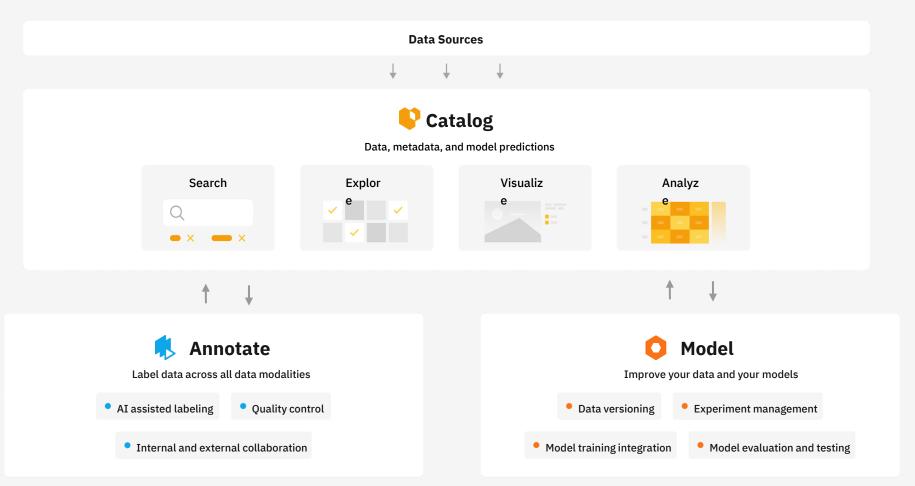
Source: Cognilytica



Building an active learning iteration loop



Building your data engine



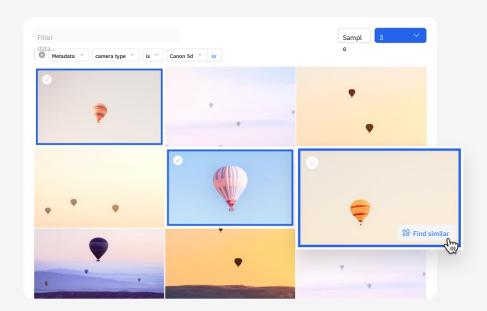


Manage unstructured data with precision

Visualize and search all your data in one place.

Find and prioritize the data that needs improvement.

Automatically assign custom metadata to assets in bulk.

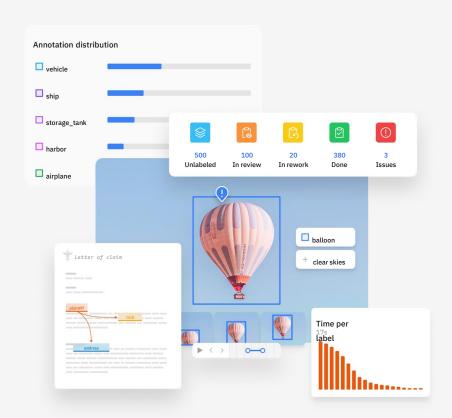




The most powerful labeling tools at your fingertips

Access a full suite of labeling, collaboration, and quality tools that give you full visibility and control.

Leverage automation and custom workflows to reduce costs and save time.



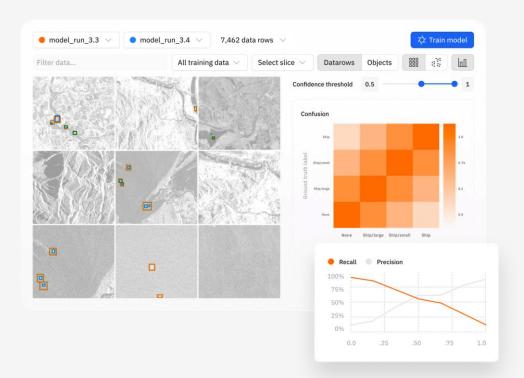


Train and evaluate AI models

Track model performance across versions with detailed metrics.

Find and fix model errors that will most dramatically improve performance.

Manage model configurations and data selection in one place.



Case Study

Airbnb

Problem

Flexibility is a key trend emerging from the pandemic as people become less tethered and the lines blur between travel, living and working

Solution

Airbnb leveraged Labelbox's annotate, catalog, and automation products to rapidly tag/categorize around 6 million live listings.

Result

Flexible Destinations will help to spread travel with many unique listings located outside of popular tourist destinations. It will also help to surface and drive demand to unique listings Hosts who have collectively earned more than \$300 million globally since the start of the pandemic

