

The ultimate all-in-one data platform

www.datumo.com









































Est.

2018.11

Clients

227+

Investment received

11M usd

Crowd-workers

240K+

Core staffs

100

UNDER 30 DIRECTOR



UNDER 30 NORTH AMERICA 2021

ENTERPRISE TECHNOLOGY

Transforming business with machine intelligence.

Judges: Jixun Foo, Kaifu Lee, Akiko Naka and S.D. Shibulal Photos by: Jae-hyun Kim for Forbes Asia



FEATURED HONOREES

HASEUNG JEON, 26; HOWOOK SHIN, 25; SEYEOB KIM, 25; MUNHWI JEON, 24

Cofounders, SelectStar

Nominated as 2021 Forbes 30 Under 30 Asia, Enterprise Technology

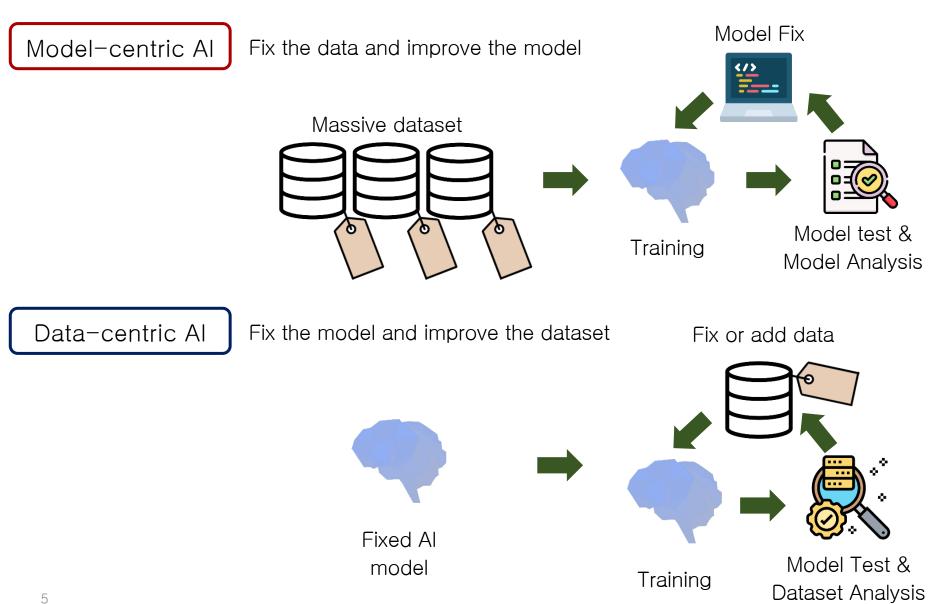


From Model-centric to Data-centric Al

2021.03

Andrew Ng (World-renowned Al scholar)

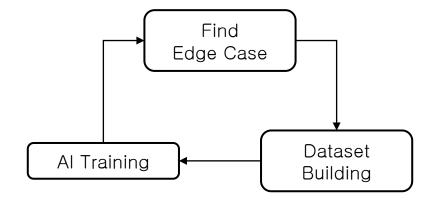
It is changing from "how to make AI" to "how to make data".



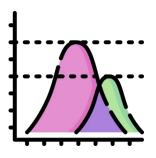
Why Data-centric Al?



If Al performance issues stem from data, then the solution must come from the data itself.



Repeating edge case handling reduces Al performance gap between development and service.



Data shifts cause Al performance degradation in service operation.

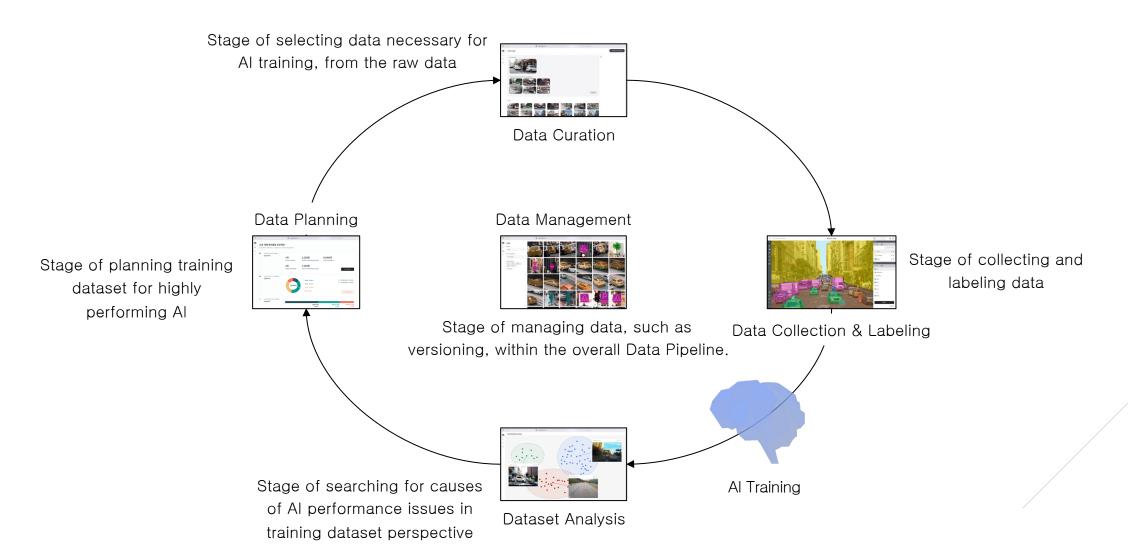




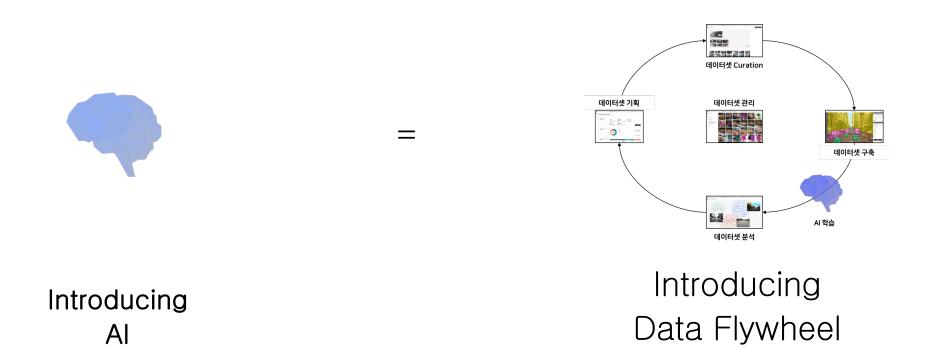


Data-centric AI is essential for both creating a custom LLM and utilizing fine-tuning.

Al Data Flywheel

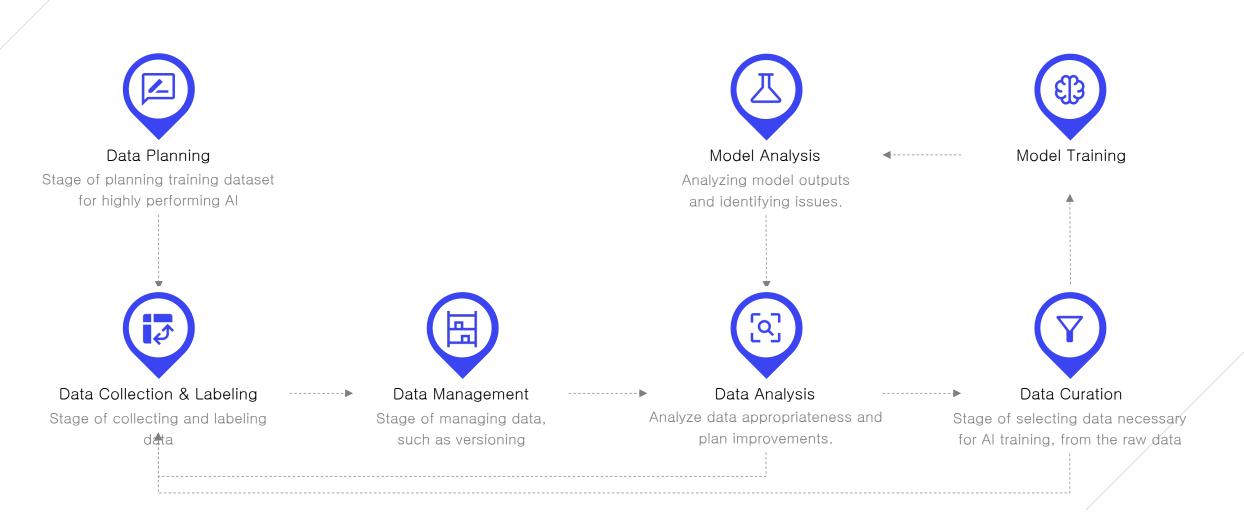


As LLM and other Al API offerings continue to expand...













What is "Quality Data"?



Accuracy

Accurate data to fulfill the purpose



Balance

Unbiased dataset



Consistency

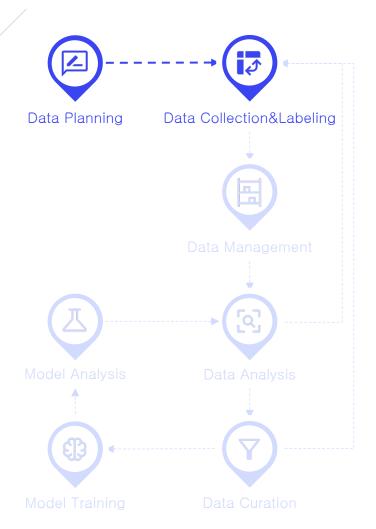
Consistent labeling results



Coverage

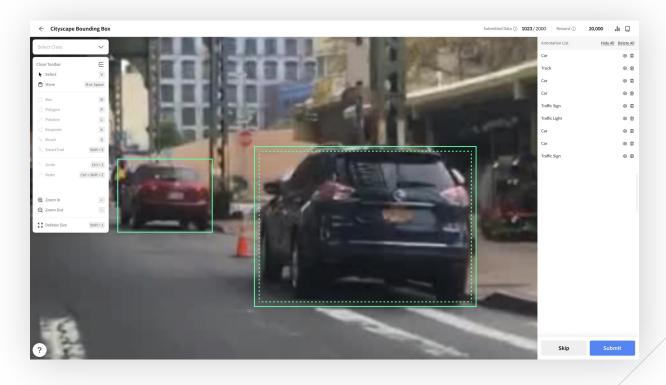
Enough case studies based on a variety of data



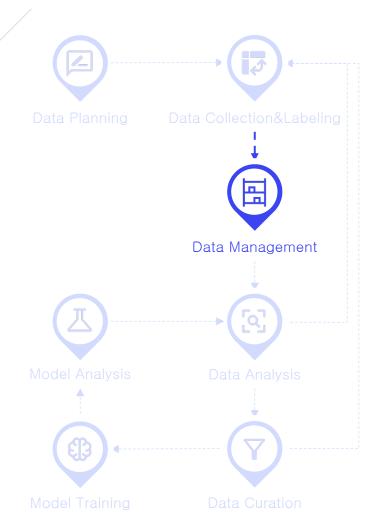


Data Collection & Labeling

Plan collection and labeling carefully to ensure accuracy, balance, consistency and coverage.

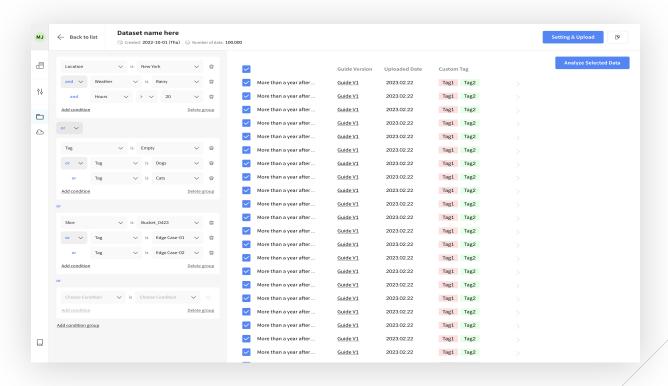




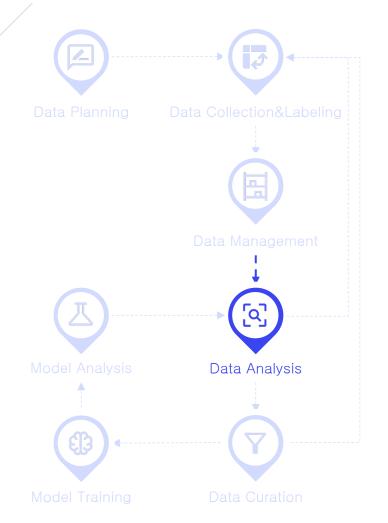


Data Management

Versioning is important to keep up with the ever-changing guidelines, sources, and basic metadata of data.



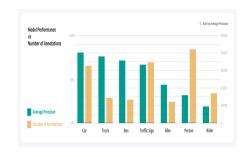




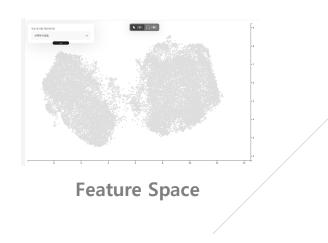
Analyze data appropriateness. E.g. coverage

Location of image
capture Time of image
Age groups of capture
provided vocal data Type of voice
recording device

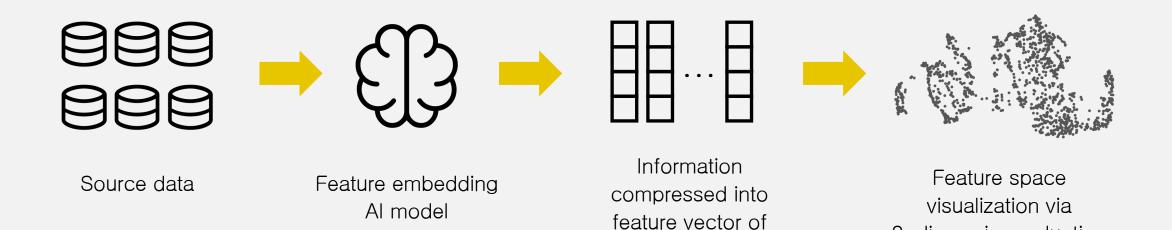
Metadata



Statistics of labels per class



What is feature space?

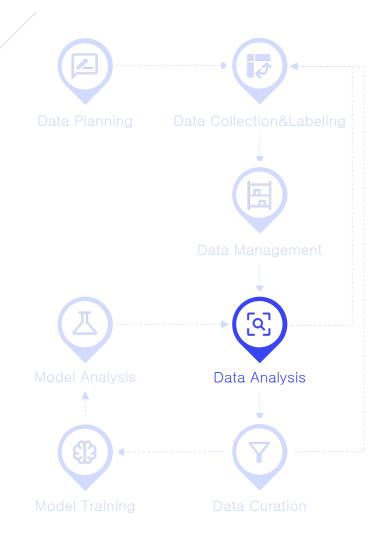


N-dimension

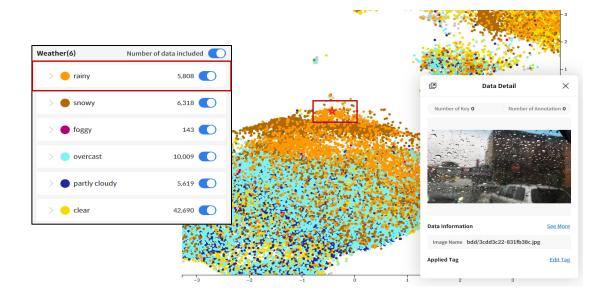
When feature is extracted from data, the data with similar characteristics in the perspective of the trained Al model tend to stay close in feature space

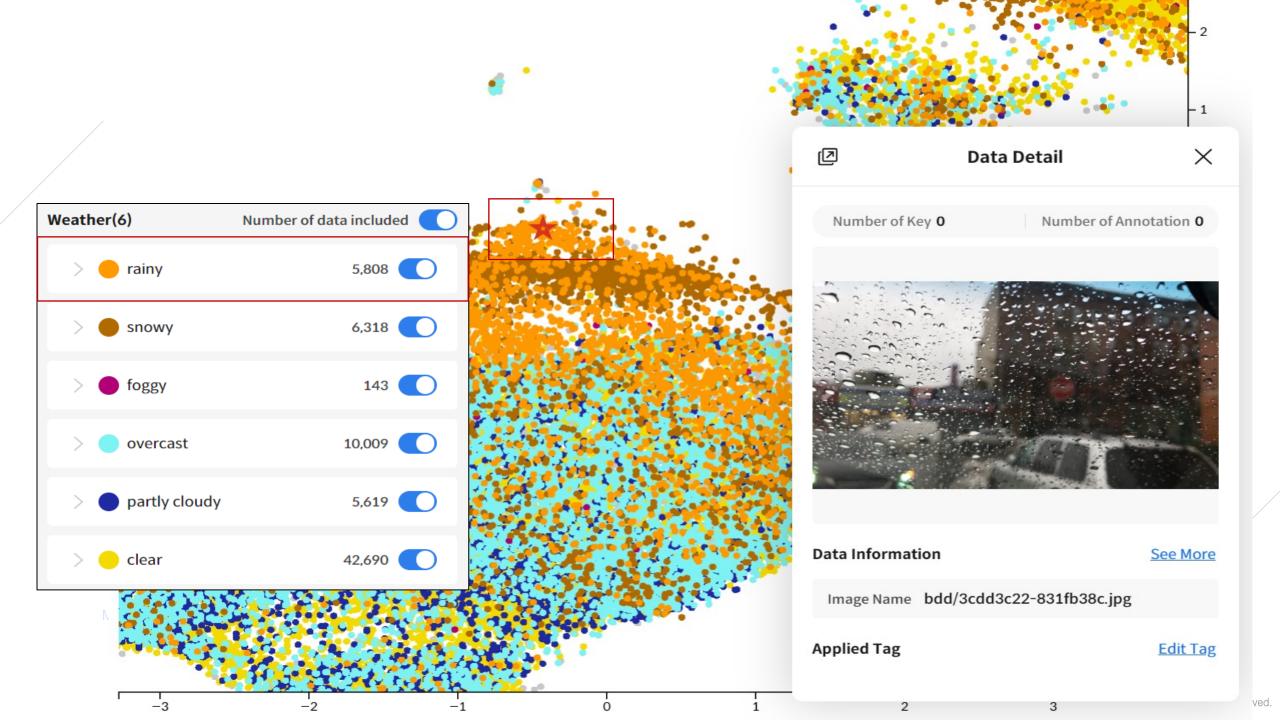
2-dimension reduction





Al scenario analysis according to feature space distribution based on metadata

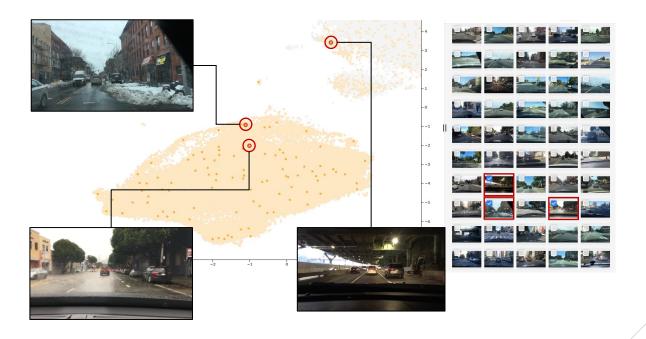




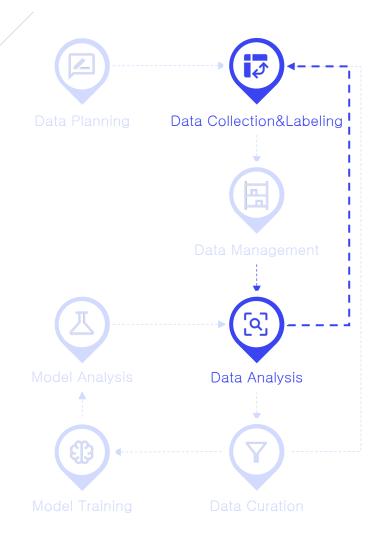




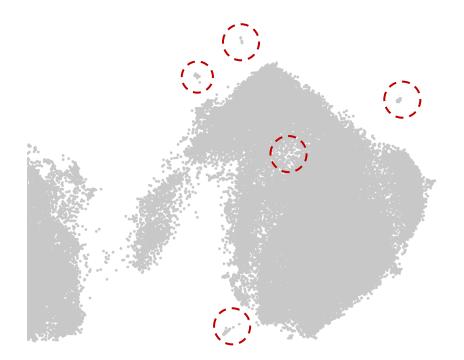
Scenario analysis by reviewing main images chosen via mathematical curation to increase coverage



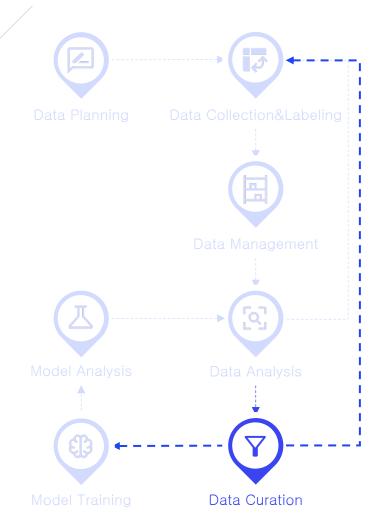




Collect and process additional data that is lacking in the feature space

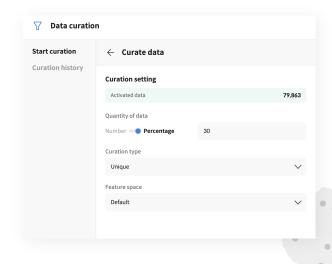




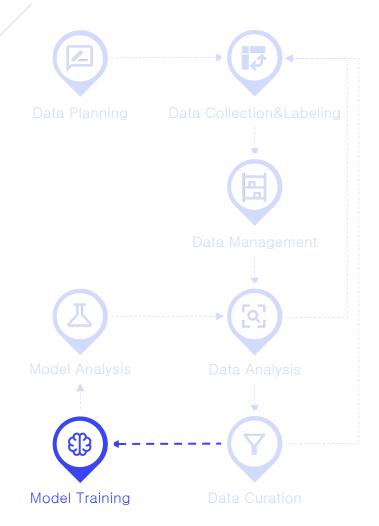


Data Curation

Curate dataset with coverage in mind, label, and train Al model

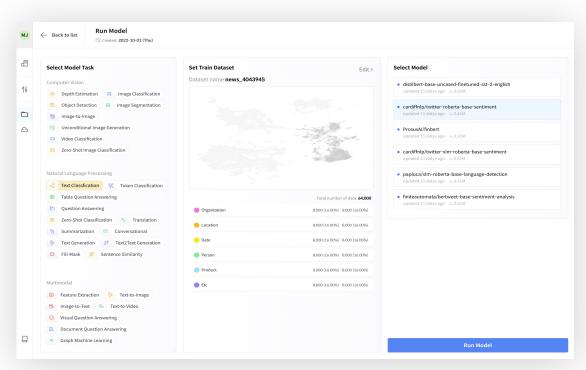




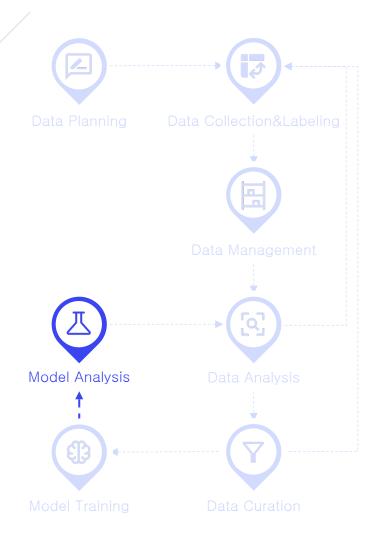


Model Training

Select and train the model you want from the list of models with an open API

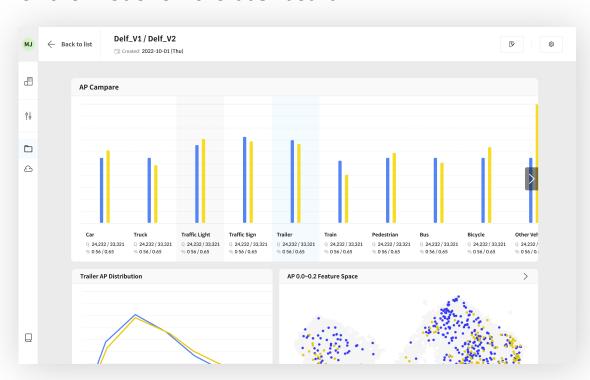




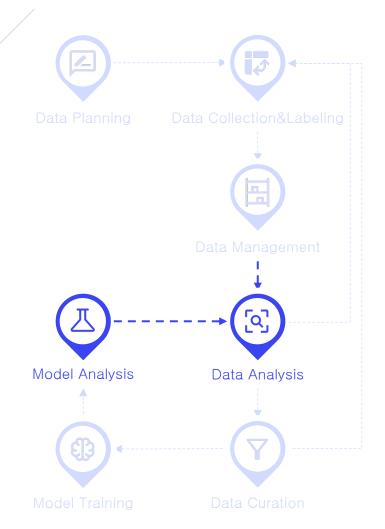


Model Analysis

Check the performance of the results of the model on the dashboard

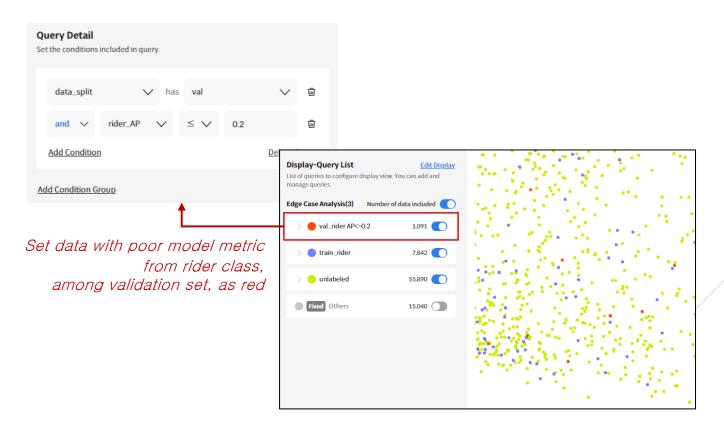




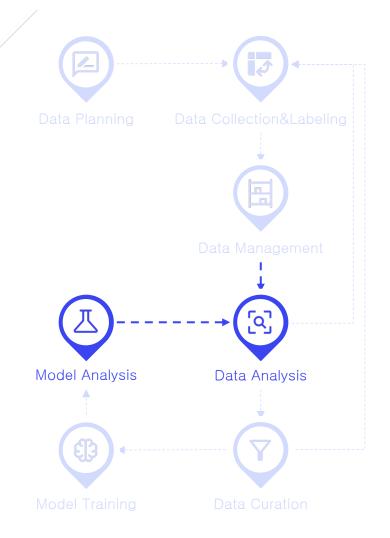


Model & Data Analysis

Combine multiple information such as model metric, data split, and others as queries and mark in color on feature space.

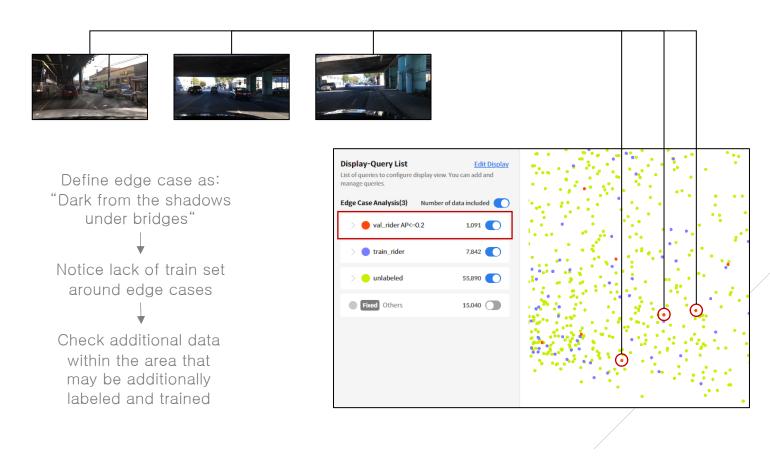






Model & Data Analysis

Define edge cases by finding common features among data

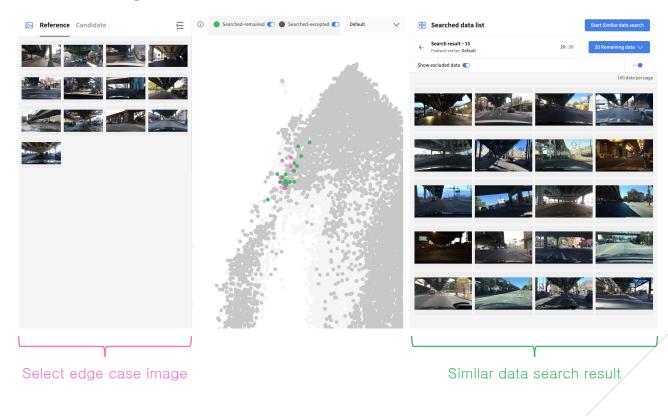






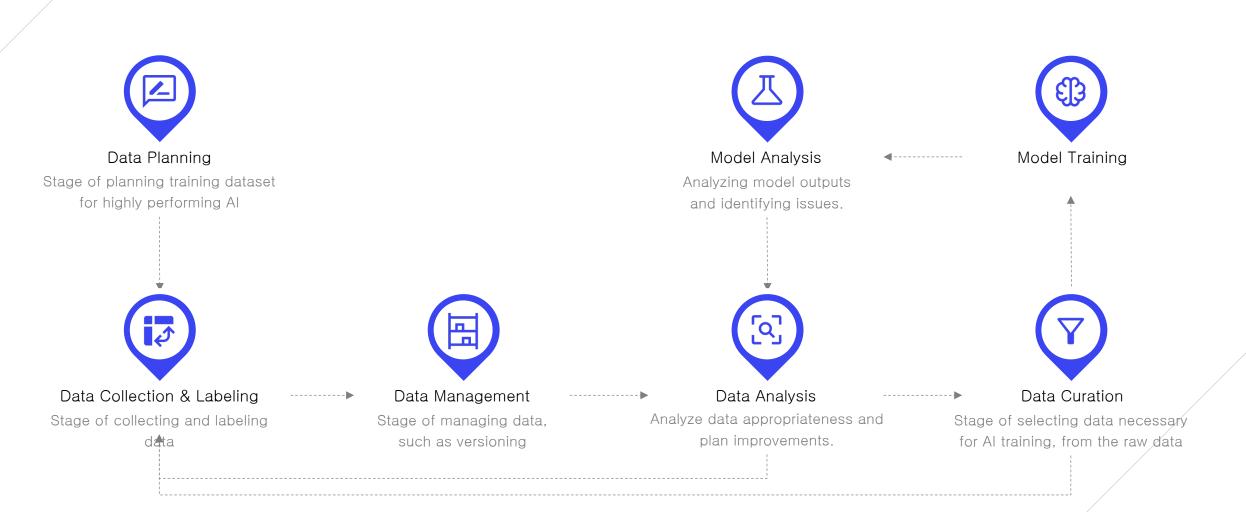
Model & Data Analysis

Curation of data similar to edge cases from unlabled data and labeling them













Al Data Flywheel with DATUMO SCOPE



Data Planning

Stage of planning training dataset for highly performing Al



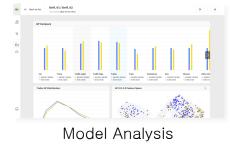
Data Collection & Labeling

Stage of collecting and labeling data



Data Management

Stage of managing data, such as versioning



Analyzing model outputs and identifying issues.

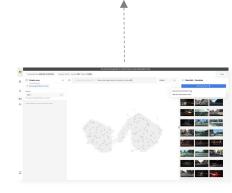


Data Analysis

Analyze data appropriateness and plan improvements.



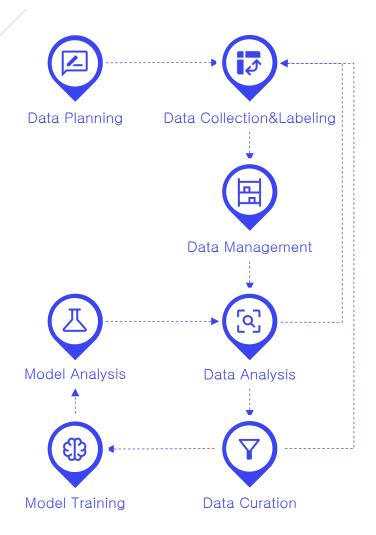
Model Training



Data Curation

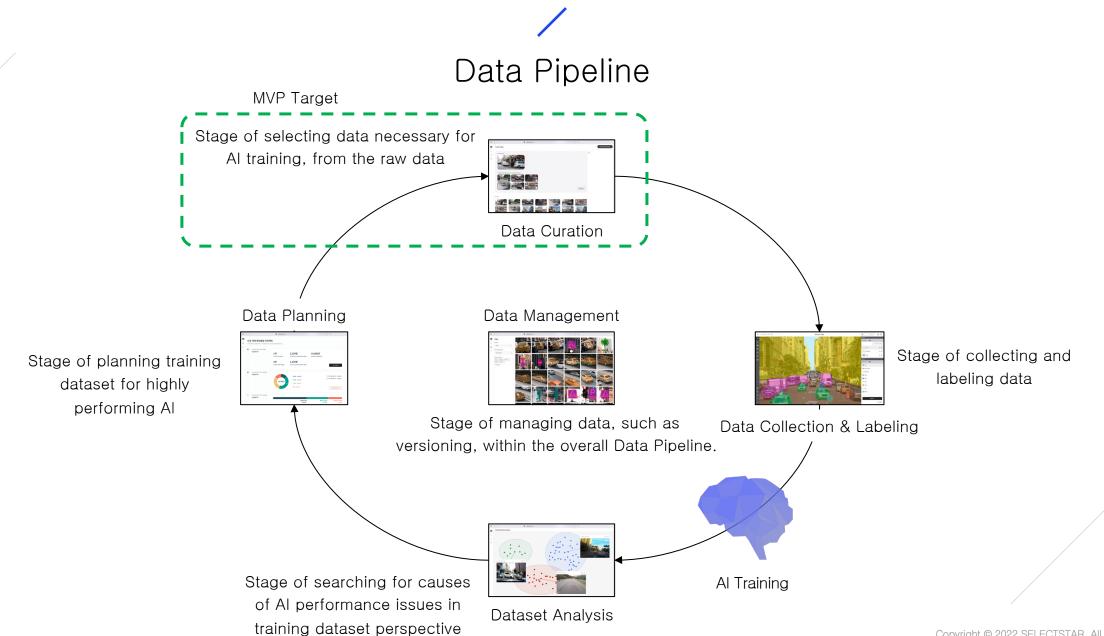
Stage of selecting data necessary for Al training, from the raw data





Build, manage, and analyze Al training data using DATUMO SCOPE, and deploy Al services without development.



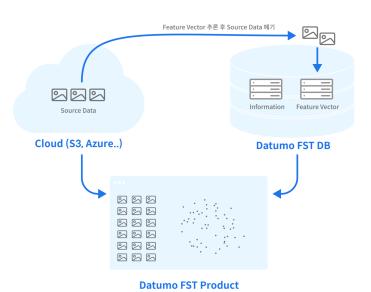




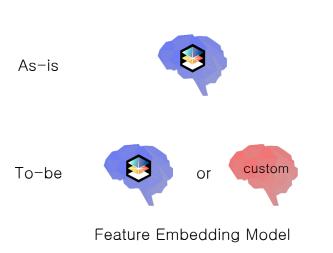
Datumo Feature Space Tool

Integration with user's Al lifecycle

No need to upload source data when utilizing Cloud Integration



Upload feature vector extracted from user's Al model ('23.01 Release)



Enable the use of intranet environment by providing on-premise ('23.03 Release)

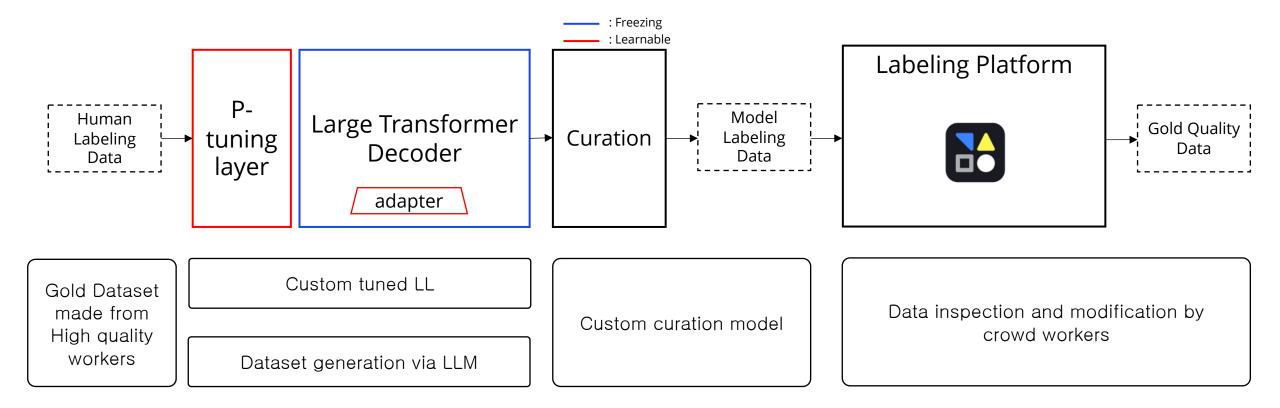




NLP Technology

Semi-automated text data generation.

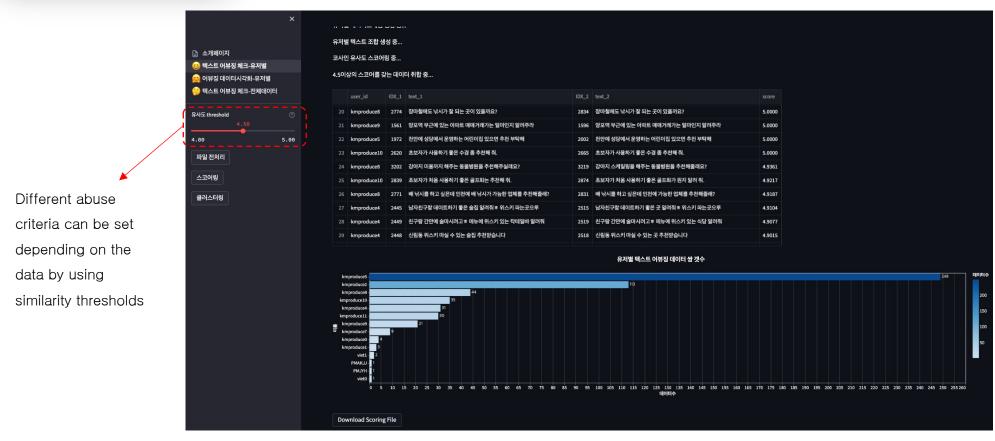
high-quality data production pipeline utilizing our in-house tuned Large Language Model, curation algorithm, and labeling platform with Al-generated data.





NLP Technology

Filtering of similar text submissions.



- Similarity scores between pairs of text submitted by users are checked,
 with a range of 0 to 5 indicating how similar they are.
- The number of similar text pairs can be visualized for each user.



Free Data Labeling Service for academic purposes



InstaOrder (w. POSTECH)



KLUE: Korean Language Understanding Evaluation (w. Upstage, NAVER, NYU, KAIST)





PATTERN ANALYSIS AND MACHINE INTELLIGENCE

KOLD: Korean Offensive Language Dataset (w. KAIST)

Analyzing Norm Violations in Real-Time Live-Streaming Chat (w. Softly.Al, USC)

Split GCN







- Try Datumo Scope Now! For FREE
- Free Data Labeling Service for Academic purposes

For more benefits, please contact contact@datumo.com



We aim to innovate the Al training data market through technology



DATUMO.COM