



High-quality Machine Learning Solutions
for high Performance Standards.

Our firm at a glance

Milan, 2022

WHO WE ARE



ML cube S.r.l. is a **Spin-off** of University Research and innovative Start-up Legislative Decree 179/2012.

It was born out of the initiative of the Department of Electronics, Information and Bioengineering of the Politecnico di Milano and Kayrhos S.r.l., together with a synergistic opportunity of scientific excellence and managerial competence.



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CEO



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Scientific Advisor



Nicola Gatti
Scientific Advisor



Francesco Trovò
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Advisory Board



Alberto Ferrarin
ML Engineer



Davide Drago
ML Engineer



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Full Stack Developer



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Nicolò Brunello
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Chiara Scrimieri
Data Scientist



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Ph.D. Student



Alessio Russo
Ph.D. Student



Gianmarco Genalti
Applied Scientist



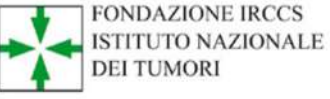
Tommaso Dematté
Digital Marketing Specialist

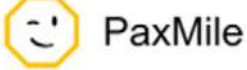


Management consulting

OUR CUSTOMERS



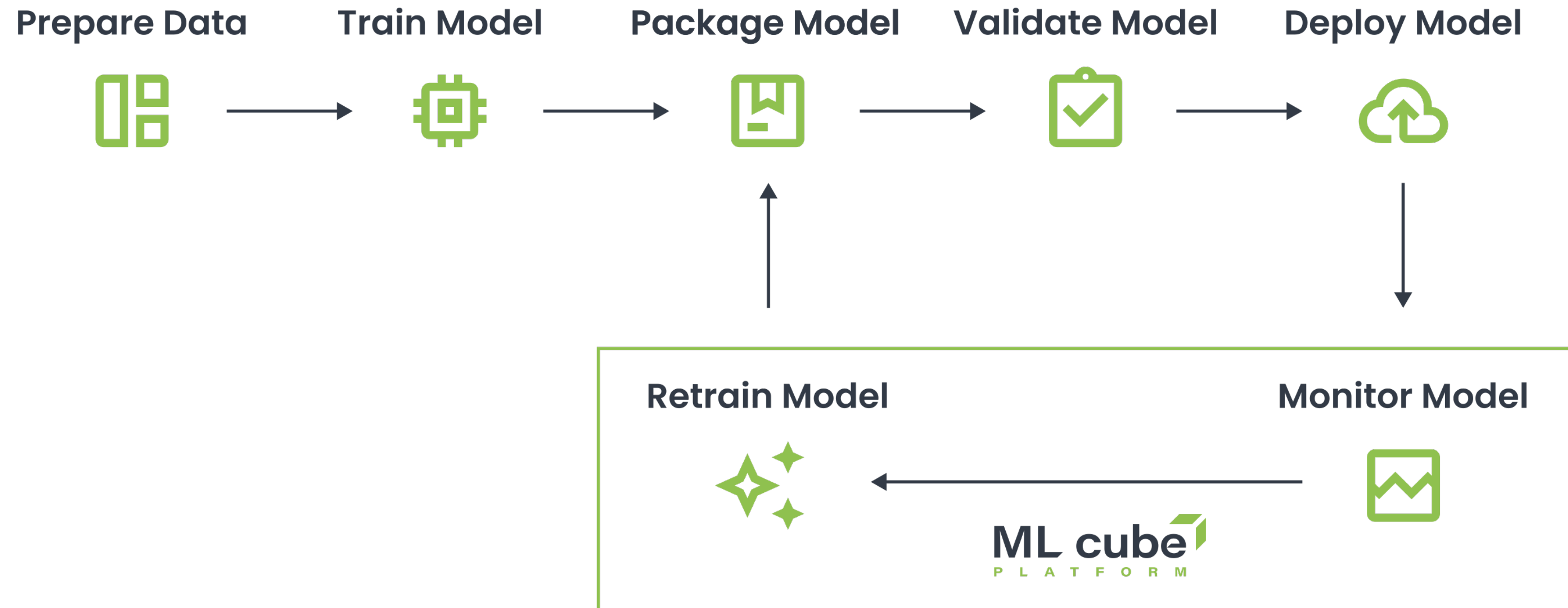
SOLUTIONS	Bidding Optimization Budget Optimization Target Optimization User profiling Ad allocation	Business forecasts Raccomendation System Churn Rate Forecast Dynamic Pricing	Dynamic Pricing Market segmentation	Screening & Treatments	Dynamic Pricing Market segmentation
REFERENCES	     	 		  	 
INDUSTRY	ADVERTISING	E-COMMERCE HEALTHTECH	BOOKING ONLINE	HEALTHCARE	REAL ESTATE

SOLUTIONS	Energy management Predictive maintenance Exhaust Gas Reduction	Online Portfolio Optmization Pricing & Hedging Trading strategies Pricing models (multi-factor)	Production planning Fault detection Predictive maintenance	Autonomous driving Driving simulators Race strategy	Automatic Newspaper Articles Generation
REFERENCES	  	 	 	 	
INDUSTRY	ENERGY	FINANCE BANKING	INDUSTRY 4.0	AUTOMOTIVE	EDITORIA

PRODUCT – ML CUBE PLATFORM

Real-time life cycle optimization of Machine Learning models

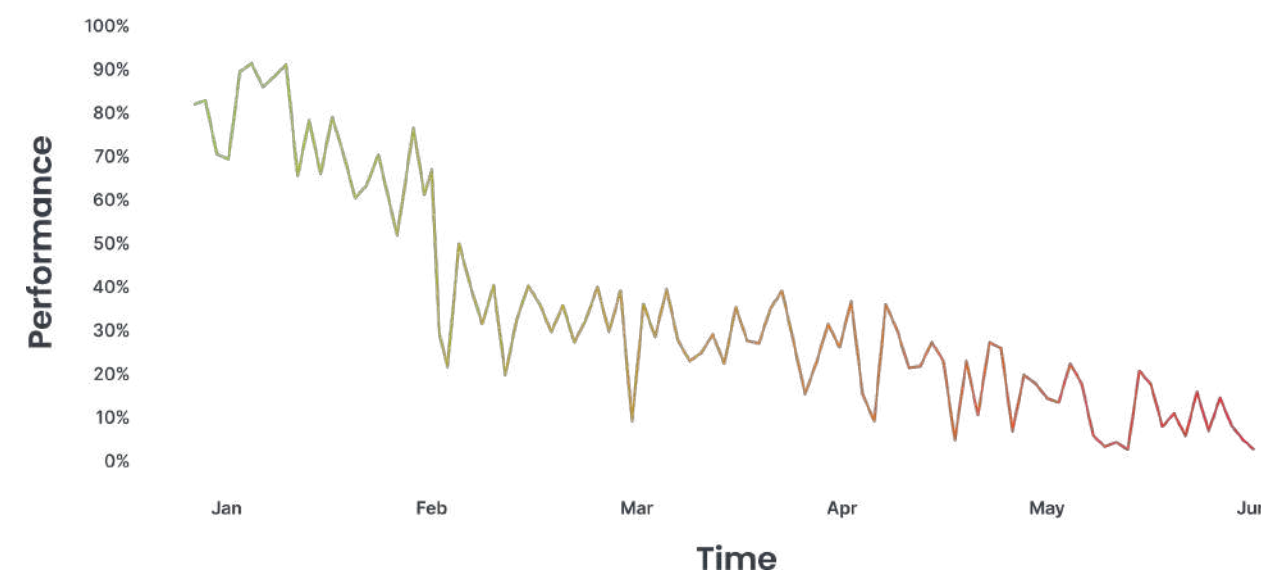
ML



PRODUCT – ML CUBE PLATFORM



PROBLEM
PERFORMANCE LOSS



Online Performance Monitoring: observes, informs and, in the event of anomalous deviations, also generates alerts in asynchronous mode.

Automatic Retrain Triggering: creates its own meta-model of the observed performance level. With Reinforcement Learning and Transfer Learning, it recommends the optimal moment for re-training.

Cost Model Management: knowledge of the cost model, risk, time and cost estimates and KPIs of business relevance.

SOLUTION
ML CUBE PLATFORM

1. Monitor

advanced analytics about data distribution, model performance and explainability

2. Detect

Monitoring and drift detection

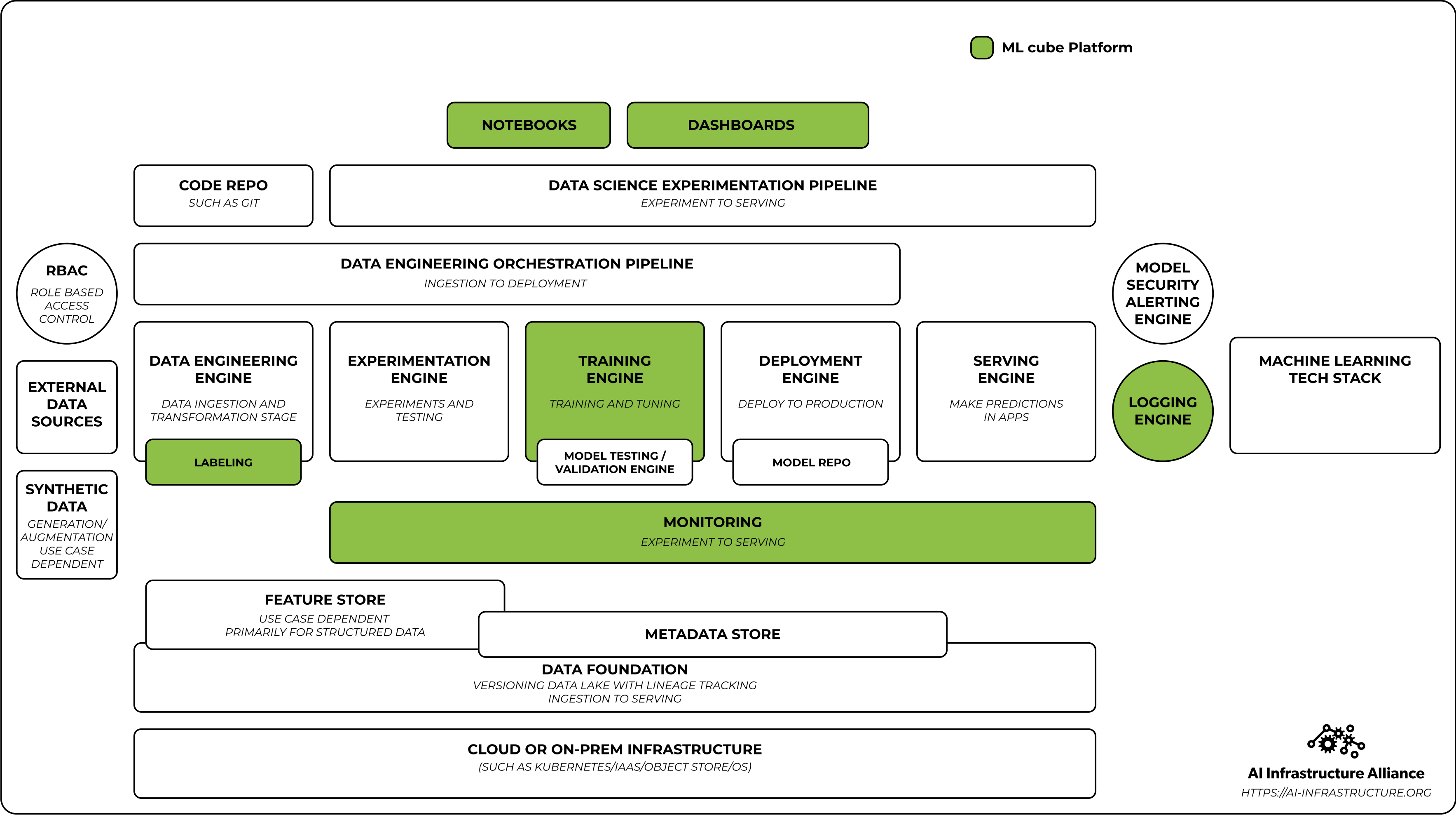
3. Act

Drift handling with advanced retraining and sample selection

4. Search

active learning module that indicates which data to label or where to collect new informative data

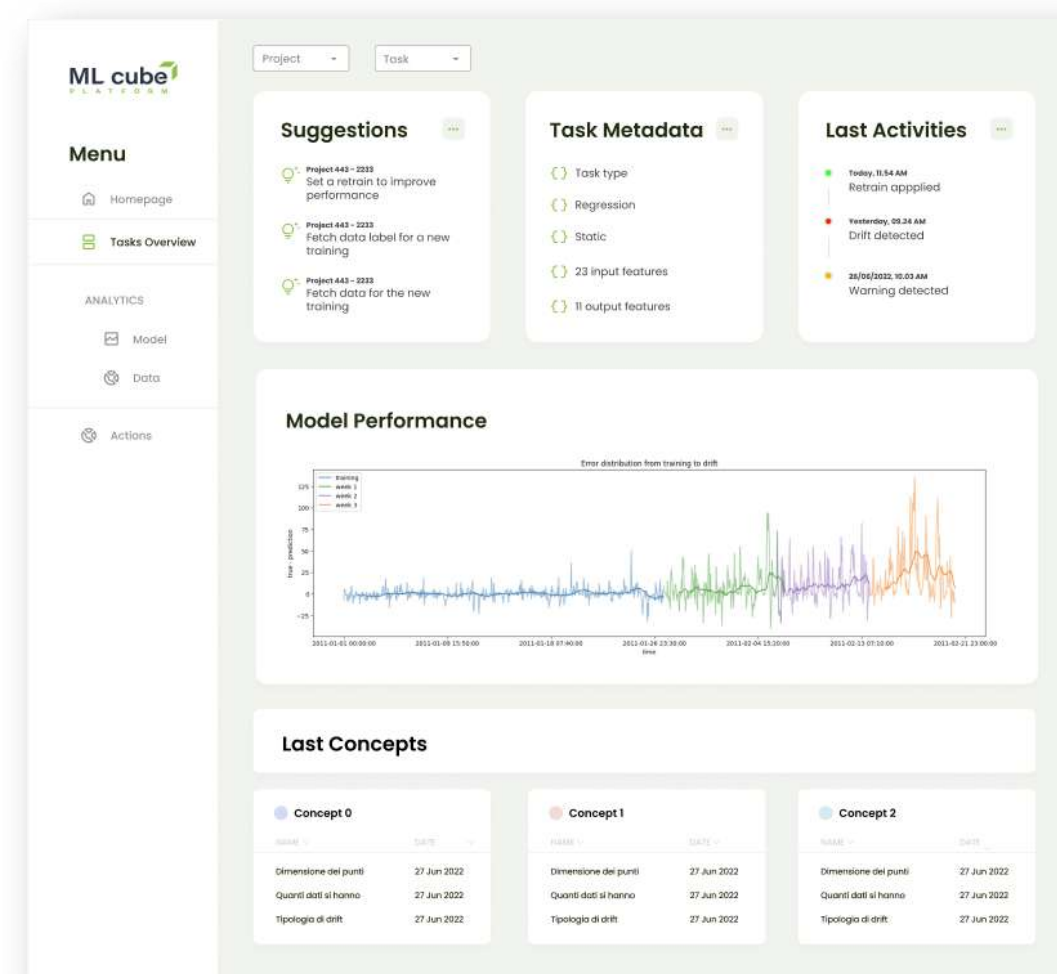
WHERE IS IT IN THE MLOPS TECH STACK?



HOW TO USE IT?

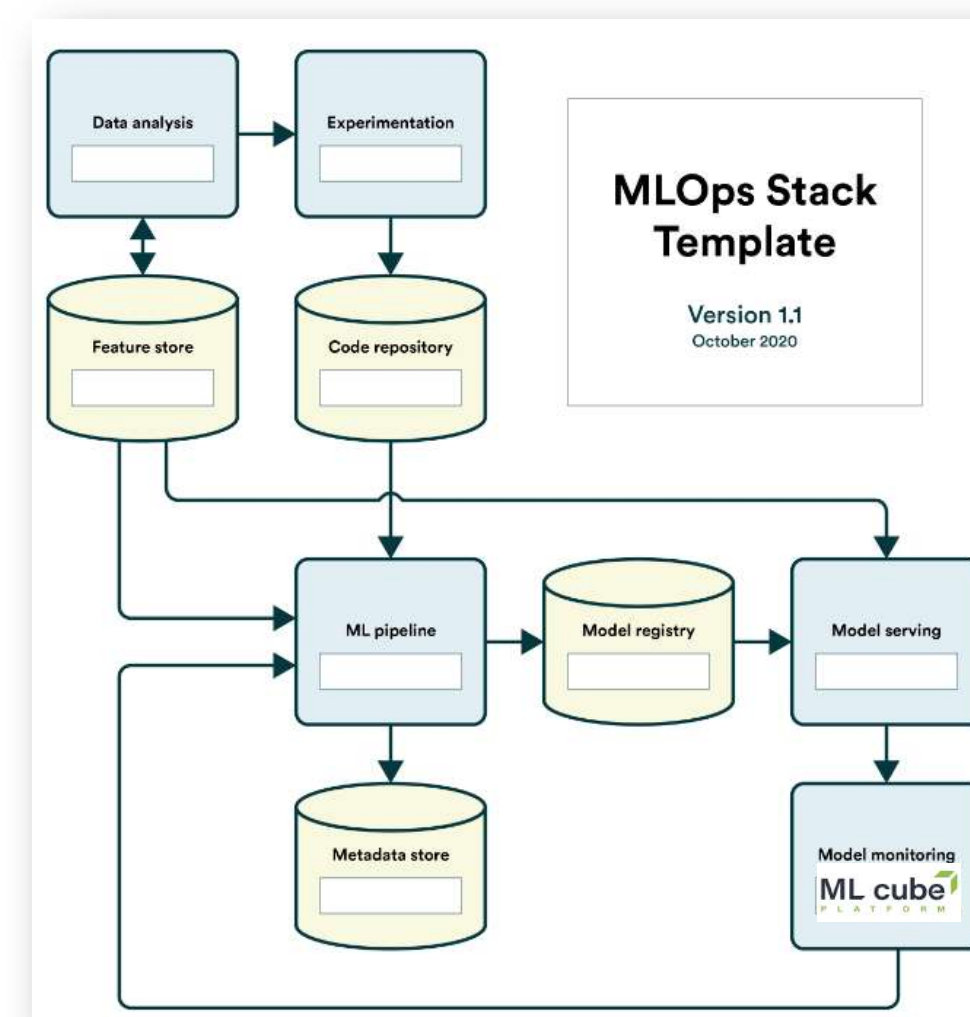
1. SaaS

ML cube Platform can be used as Software as a service via a web interface



2. MLOps Plug-in

Use functionalities and algorithms of ML cube directly in your favourite MLOps platform



3. SDK

Use ML cube Platform writing your own code with out Python SDK

```
from ml3_platform import MLcubePlatform

client = MLcubePlatform(API_TOKEN)
client.add_production_data(production_data)
if client.there_is_drift():
    action = client.get_corrective_action()
```



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THANK YOU!

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