

Fast Sub-ML Usecase Development using Feature Stores

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CORE

Systems

TEAM:

Data Science

Business

CUSTOMERS:

US EU

FOCUS: Sub-ML Use Cases

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Ecommerce

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PHILOSOPHY:

Trust, Value, Speed

TORONTO



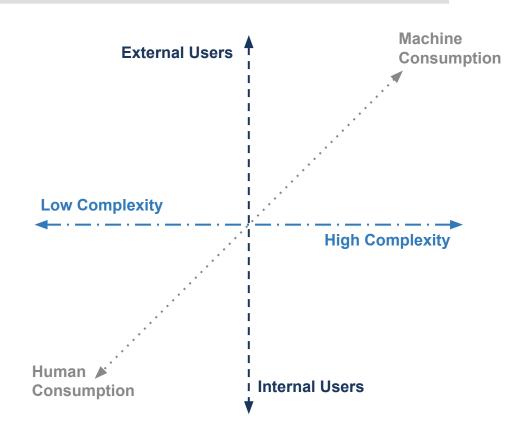






The changing face of ML

- Machine learning is no longer one-size-fits-all
- Problems space and solution approaches are evolving

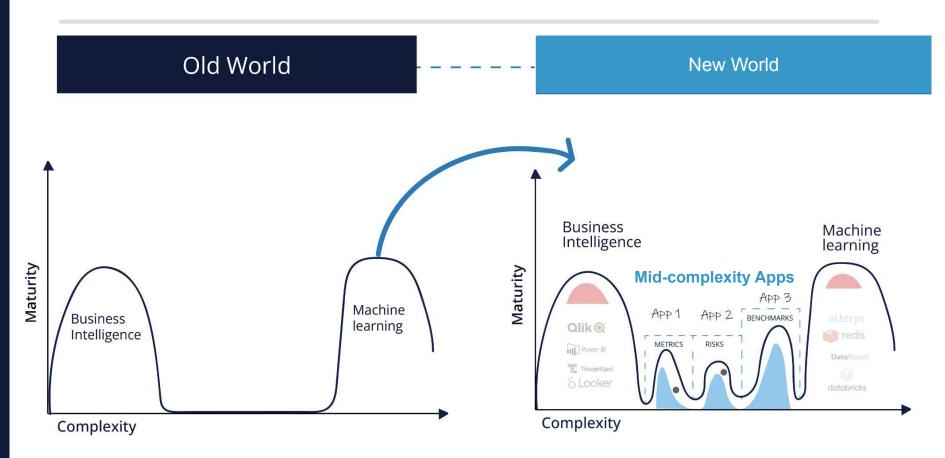


The changing face of ML



Traditional assumptions for ML solutions not always true anymore

The case for sub-ML





Spectrum of use cases



Sub-ML

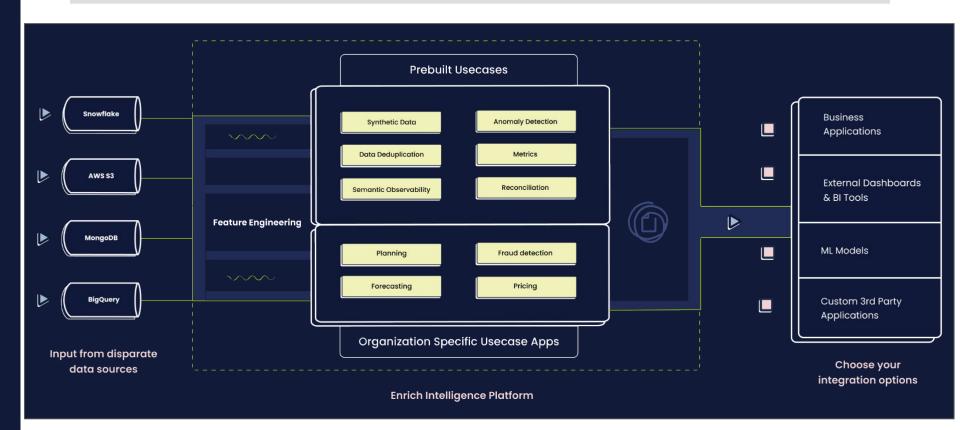
Big-ML

Sub-ML problem space characteristics

	Big-ML	Sub-ML
Problems	Few High Clarity Performance sensitive predictions	Many Changing Requirements Prediction & Decision Support
Delivery	Modularized	Full Stack
Timelines	Months	Days to Weeks
Users	DS/MLE, Fulltime Efficiency/Scalability	BA/DS, Limited Bandwidth Tacit Knowledge Management
Complexity	DL/ML at Scale, Batch+Real-time	ML-Lite, Typically batch (Rules+Simple ML Models)
Data Accuracy	Probabilistic guarantees	High accuracy
Consumption	API/DB	Data Apps , Workflows, API



Feature app stores





Benefits of sub-ML feature app stores

- Streamlining of use case development
- Less coordination needed
- Reduced integration costs due to full stack approach
- Embedding tacit knowledge

The future

- Sub-ML is here to stay
 - Economics of data solutions is changing
 - Expected time-to-solution is shrinking
- Sub-ML will be the gateway drug
 - Low cost per use case
- Long tail will grow fast
 - Lower risk of experimentation
 - Success will spur more use cases



Thank You



