

EDM Webinar

How to unify business intelligence & data science with a semantic layer

A conversation with



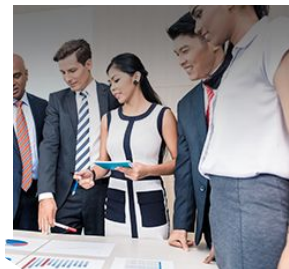
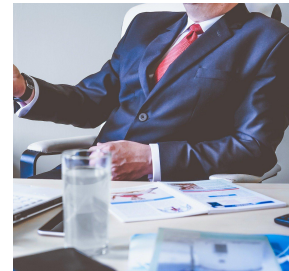
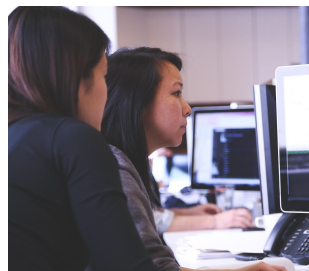
Gaurav Rao
EVP & GM Machine Learning and AI
AtScale



Abhishek Singh
Senior Machine Learning Engineer
Cardinal Health

ATSCALE

EDM Council



Moderated by **Mike Meriton** Co-Founder & COO, EDM Council

- Joined EDM Council full-time 2015 to lead Industry Engagement
- EDM Council Co-Founder & First Chairman (2005-2007)
- EDM Council Finance Board Chair (2007-2015)
- Former CEO GoldenSource (2002-2015)
- Former Executive for D&B Software and Oracle
- FinTech Innovation Lab – Executive Mentor (2011 – Present)



Today's speakers

Moderator



Mike Meriton

Co-Founder & COO
EDM Council



Gaurav Rao

EVP & GM Machine
Learning and AI
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Abhishek Singh

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Poll #1:

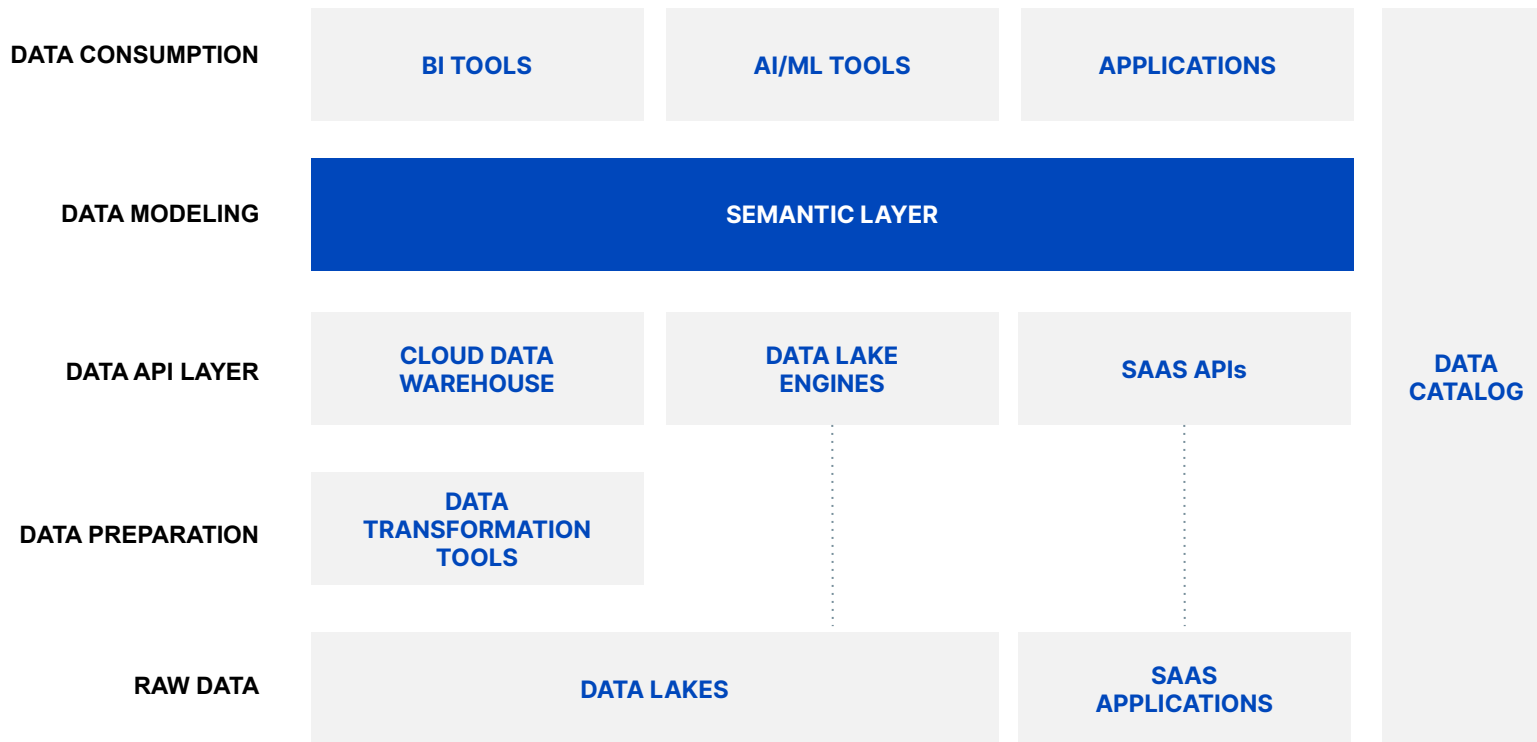
Are you familiar with the concept of a “**semantic layer**”? (1= Low and 5= High)

A semantic layer provides the **agility, consistency, and control** needed to scale enterprise BI and AI





Where does a semantic layer fit in the stack?

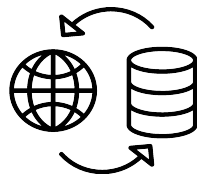


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Poll #2:

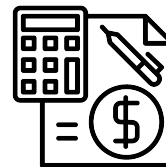
Are you using a **cloud data platform**?

How is a semantic layer used in cloud architectures?



CLOUD ANALYTICS OPTIMIZATION

Speed of thought analytics on live cloud data, agile data integration with minimal data movement.



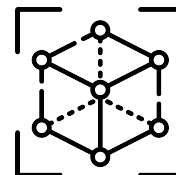
ENTERPRISE CLOUD METRICS STORE

Single source of governed enterprise metrics that can be self-served from any AI/BI tool.



BRIDGING AI AND BI

Common view of data assets and platform for publishing AI-generated insights to decision makers.



OLAP MODERNIZATION

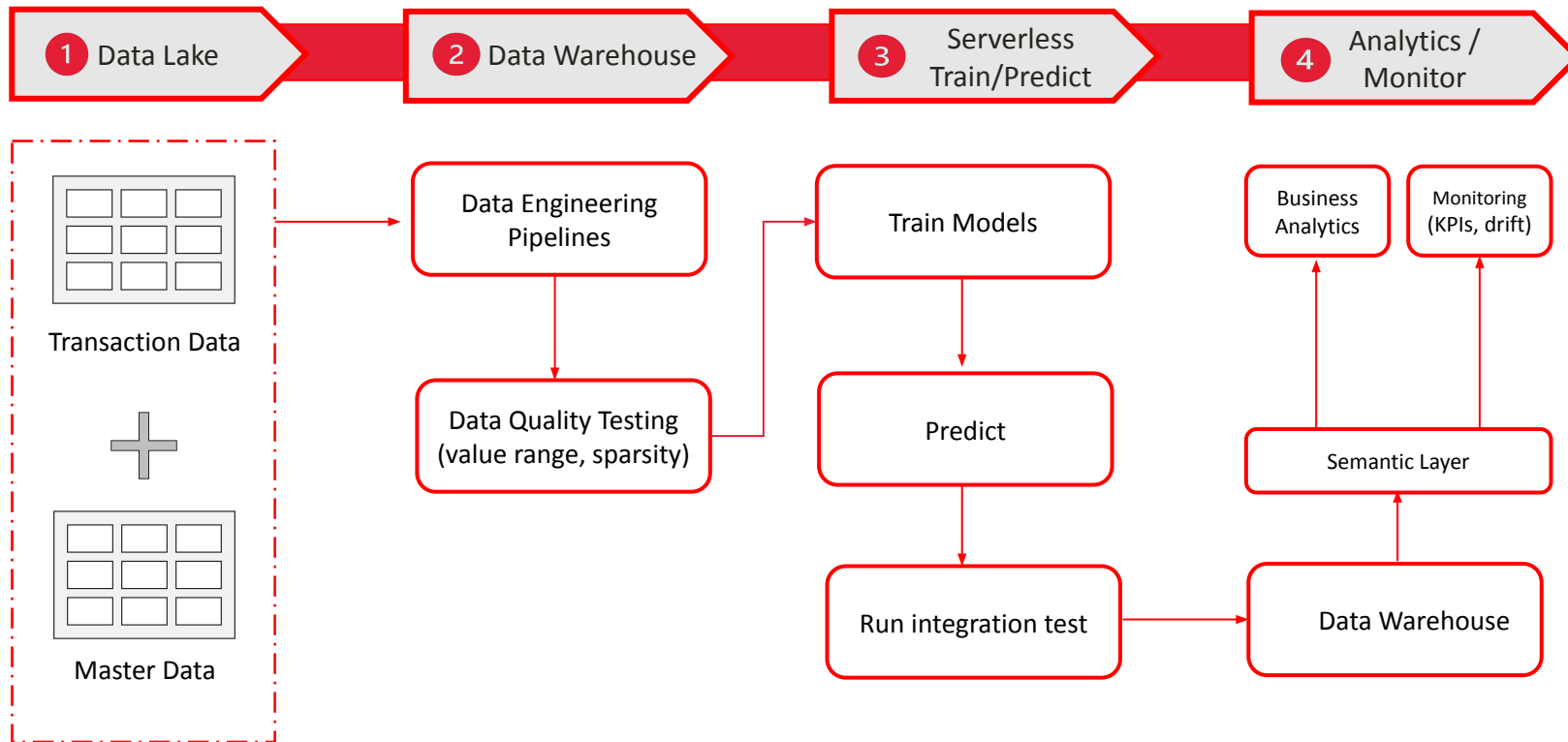
Migrate legacy OLAP (e.g. SSAS) models to modern cloud-first infrastructure.



MLOps - Sample Use Case Architecture

Abhishek Singh
July 21, 2022

Custom Cloud AI | Solution Pipeline



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Poll #3:

Are your BI decisions being **informed by AI**?

Common Pain Points Among Data Analytics Teams

1

Creating Applied AI Still Requires Deep Expertise

Even with AutoML and MLOps tools, a well-baked understanding of data and model training is required to generate performant model output.

2

Cultural Adoption and Application of ML Models is an Inhibitor to Success

Earning trust and confidence in ML modelling initiatives requires input from multiple personas.

3

Deploying Production-Ready ML Models is difficult

Data scientists are encumbered by a proliferation of tool preference and different views (and interpretations) of data.

What are some solutions?

Manage Definition Alignment

Making sure business analysts, data engineers, and data scientists are sharing knowledge is crucial to tie the context and data of a business together

Foster Experimentation

Encourage controlled experimentation in sandbox environments so different data personas can manifest shared empathy for opportunities to address skill gap friction

Make Objectives Transparent

Different data, IT, and business personas need to have the same understanding of the goal from the initiative

Develop a Narrative from your Data

Capturing lineage of decisions is crucial to telling a good story about the model development process

Leave Data Where It Is

Share a common view of what data will be used for analytics workloads

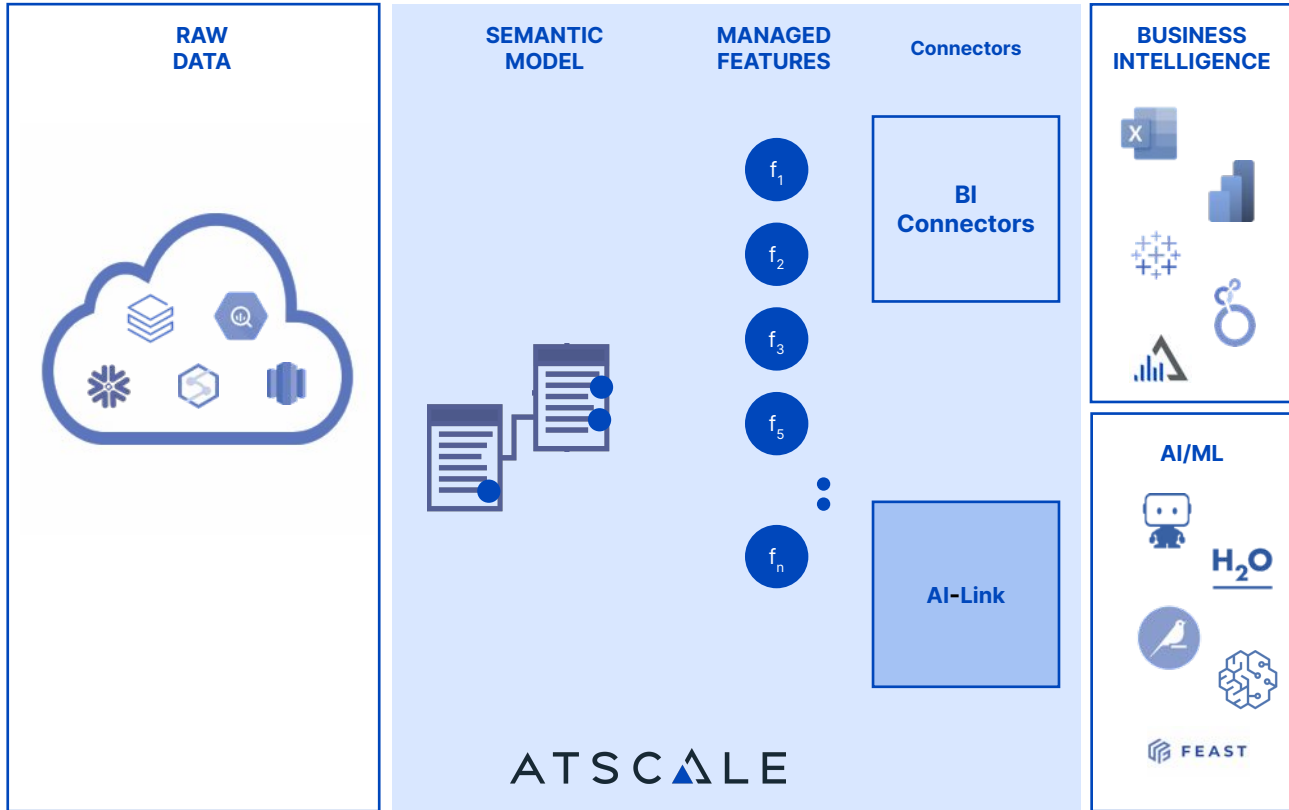
Consistency is Key

Solidify common practices, repositories, and languages are used and shared

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Live Audience Q&A

Example: AtScale logical view





See AtScale in Action

<https://www.atscale.com/demo/>

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