

MODAK DATA ENGINEERING STUDIO

Our service offerings include delivering federated data domain or data products as a service for large-scale data transformation projects through Azure. Building Modern Data Platforms, Data Fabric or Data Mesh, and Self-Service models.

Modak has captured the extensive experience of working with large-scale data transformation projects to create an agile and repeatable delivery methodology fueled through automation driven by Modak Nabu™. Modak's Data Engineering Studio bridges the gap between analytical, business, and data processing teams through a scaled agile framework to accelerate the delivery of federated data domain assets for consumption. Furthermore, the studio approach ensures continuous delivery of data products as a service, monitoring, and skilled managed service teams to institutionalize a DataOps culture. Data Engineering Studio leverages cloud services offered by Azure for Nabu right from data discovery, ingestion, curation and building data domain for consumption.

Agile

Skilled scrum masters and project managers in Agile delivery based on the core values Alignment, Transparency, Built-in Quality, Program Execution and seven core competencies of business agility. Our Agile approach helps in strategic planning of data product roadmaps across multi-functional teams.

INTEGRATED POD

Modak Integrated POD is a self-organized, cross functional, disciplinary small team, with diverse extensive experience in data software tools and Microsoft Azure Cloud.

Modak works with the Scaled Agile for software development and delivery. Agile provides a collaborative approach to strategic planning of product roadmaps across multi-functional teams across an Enterprise. Reduces project risk, allows greater transparency, and aligns business goals to project delivery and milestones.

DATA ENGINEERING - Ingestion, Curation and Consumption – w/out Modak

Design, development, and testing of automated data ingestion and curation pipelines from on-prem data sources to the Azure cloud. Collaboration with business domain experts to create data domain products for consumption.

MULTI-CLOUD MIGRATION

Planning for an enterprise data migration from traditional technology platforms to 'Azure' Data cloud platform. There are 5 key questions:

- Why should a cloud dimension be added to a data management portfolio?

The current on-premise hosting of big data platforms posted several challenges solved by adding competitor advantage, opportunity to move faster, adaptability to new tools were solved by adding cloud as a dimension.

- What data should be moved to the cloud?

Understanding the cost, utilization and business goals migrate data to cloud.

- When should the data be moved?

Moving data to cloud can be done very quickly based on business case for data migration.

- Where is the data moved to?

Data can be moved to a single cloud platform, or multi-cloud platform based on landing areas like Data Warehouse, Data Lake, Virtual Cloud or Cold Storage Warehouse.

- How is the data moved?

Depending upon the analyses and decisions and considering 'why', 'what', and 'where' data will be moved.

MANAGED SERVICES

Managed Services team will provide all the required platform and pipeline related support during customer engagement.

Services offered by Modak Managed Services team include following:

- Monitoring of all the cloud platforms periodically for alerts and warnings.
- Troubleshooting any identified issue as per agreed SLA, SLI and SLO
- Restoring services to green, unless there is a scheduled downtime
- Monitoring the resource usage on cloud platforms
- Changing the cloud service level configurations as and when required

SITE RELIABILITY ENGINEERING

Technical expertise with support and development experience to monitor and manage resources on Microsoft Azure cloud providers. Automation and tools to resolve the incidents that impact the Cloud data platform. Monitor cloud data platform uptime, performance, and other components that include dependency with other software components.

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LIFE SCIENCE DOMAIN AND DATA KNOWLEDGE

- Extensive domain and technical experience converting 1000+ legacy format clinical trials into SDTM format. Deep understanding of different SDTM domains.
- Ingestion and processing of human genome data sets and knowledge.
- Real-time integration with third-party clinical trial data capture systems.
- 8+ years of working with complex Life Science data formats, types, transformations, and building large-scale, complex R&D-focused data ass

Implantation Plan

Week 1 - Week 4: Data Discovery

Week 5 - Week 10: Ingestion

Week 11 - Week 16: Curation

Week 17 - 22: Data Domains

Week 23: User Acceptance Testing

Week 24: Deployment

Week 25 - 26: Support and monitoring