

## Tiger Analytics equipped a top American Health Insurer with an **MLOps assessment playbook** to migrate key statistical models



Tiger Analytics developed a phased execution roadmap comprising design, resourcing, and cost/time estimation. It provided an overview of the implementation process for MLOps while detailing required roles and more. The solution also came with a PoC to help manage the MLOps lifecycle.



## The Background

Our client is a leading Health Insurer based in the US. Their Data Science team owned a set of statistical models to support underwriting, care management, and other use cases. So, they wanted to migrate the existing models from legacy tools and processes to industry-leading MLOps best practices. It would also help the client create a roadmap for scalable, enterprise-wide applications in the future.

# Key Challenges

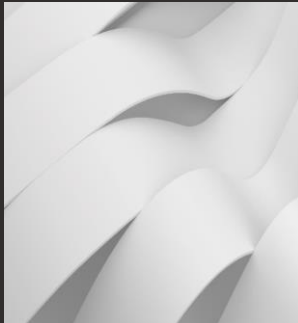


## Difficult to align with IT priorities:

It was challenging to align a solution approach with the insurer's organizational priorities and IT roadmap.

## Stakeholder awareness hurdles:

It seemed very time-consuming to educate key stakeholders and take a step-by-step approach to demonstrate and realize value.



## Technology evaluation gaps:

There was no framework to evaluate MLOps technologies and ensure functional capabilities while being cost-effective.

# Our Solution



The team developed a best practice-based MLOps Assessment Framework covering people, processes, and technology. Next, they assessed the current state and developed an MLOps Playbook to establish the desired long-term state with the requisite functional capabilities.

The team then designed a Technology Architecture Blueprint based on a long-term vision, with recommendations on process and people skills to be added. Finally, a phased execution roadmap was built with resourcing, cost and time estimates, along with an overview of the implementation process.

## Tech Stack



Amazon SageMaker



AWS Lambda



Amazon S3



Amazon EKS



Amazon CloudWatch



AWS IAM



amazon EMR



Jira



Jenkins

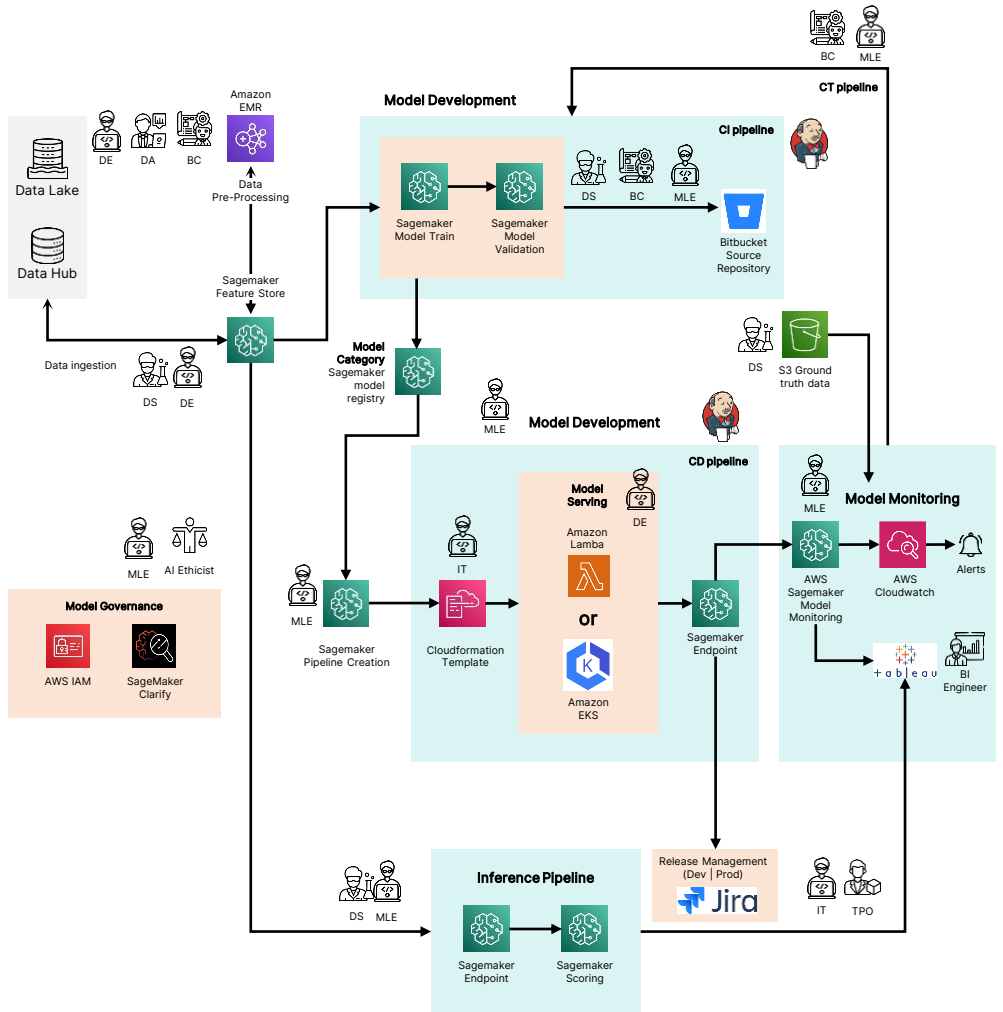


Bitbucket



tableau

# Solution Architecture



**DE:** Data Engineer  
**DS:** Data Scientist  
**DA:** Data Analyst  
**BC:** Business Consultant

**MLE:** Machine Learning Engineer  
**BI Engineer:** Business Intelligence Engineer  
**TPO:** Technical Product Owner  
**IT:** Information Technology



# Value Delivered

**A phased execution roadmap** was designed with resourcing, as well as cost and time estimates, with an overview of the implementation process for MLOps.

Required roles and **key activities were shared for each phase.**

**A PoC was recommended** to establish the required functional capabilities across the MLOps lifecycle, covering timelines, key activities, and expected outcomes.

## About Tiger Analytics

Tiger Analytics is a global leader in AI and analytics, helping Fortune 1000 companies solve their toughest challenges. We offer full-stack AI and analytics services & solutions to help businesses achieve real outcomes and value at scale. We are on a mission to push the boundaries of what AI and analytics can do to help enterprises navigate uncertainty and move forward decisively. Our purpose is to ***provide certainty to shape a better tomorrow.***

Being a recipient of multiple industry awards and recognitions, we have 4000+ technologists and consultants, working from multiple cities in 5 continents.

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