

The background features a vibrant blue gradient with subtle, wavy horizontal lines. In the bottom right corner, there are abstract, flowing shapes in shades of purple, pink, and orange, creating a dynamic and modern aesthetic.

aws SUMMIT

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AIML002

Sony Pictures transforming business using AWS Analytics and AI/ML services

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AWS India



Agenda

- AWS modern data strategy for M&E
- SPNI business transformation journey
- About Sony Pictures & Vision
- SPNI data lake architecture
- MLOps platform
- Building on modern data platform
- Benefits of building on AWS

Key media and entertainment business drivers

Do you have all the insights needed to drive your business?



Drive advertising
revenue & reduce
content costs



Increase
lifetime value of
user



Attract new
customers &
reduce churn



Innovate &
Accelerate
outcomes

Common analytics barriers to driving business outcomes

- Limited insight into customer experiences and operations
- Need to make quicker decisions
- Enabling innovation with analytics & machine learning
- Technical staff & cost to scale self-managed infrastructures

THE ASPIRATION

Becoming a data-driven organization

“An organization that harnesses data as an asset, to drive sustained innovation and create actionable insights to supercharge the experience for their customers so they demand more...”

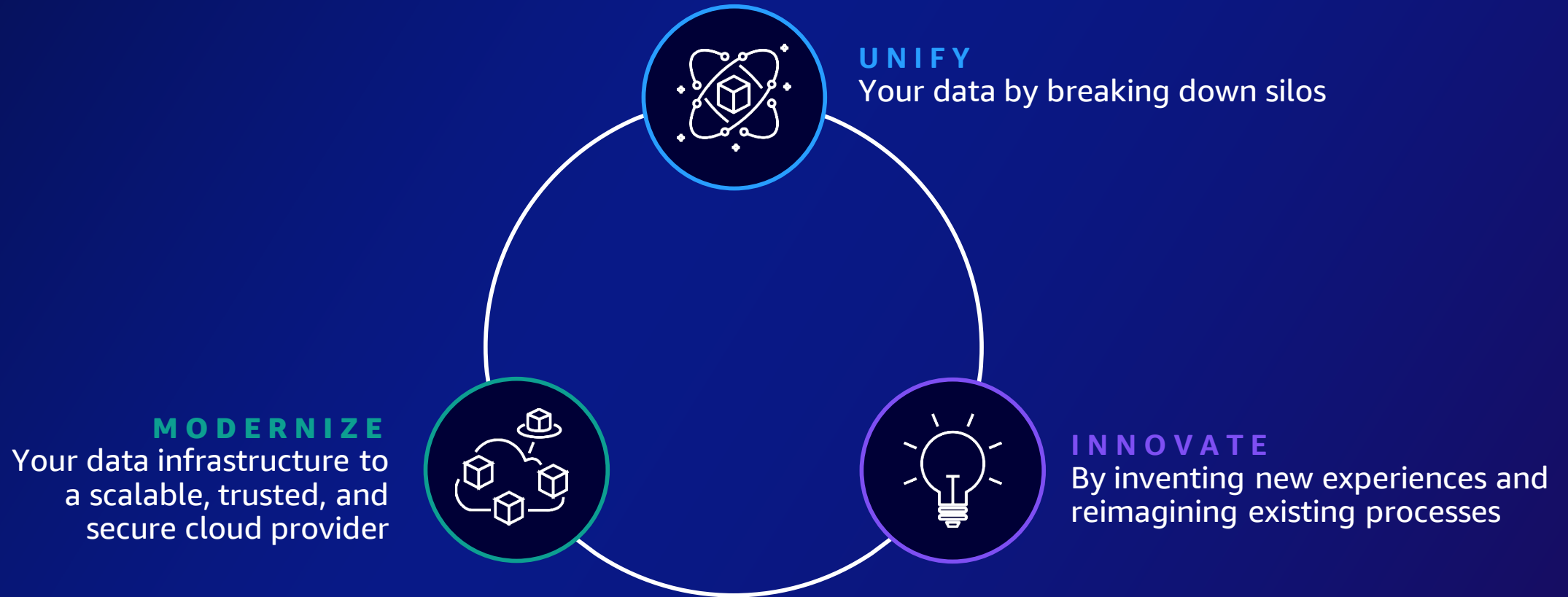
85% of businesses want to be data driven

37% have been successful

Source: Forbes Online; New Vantage Partners Survey

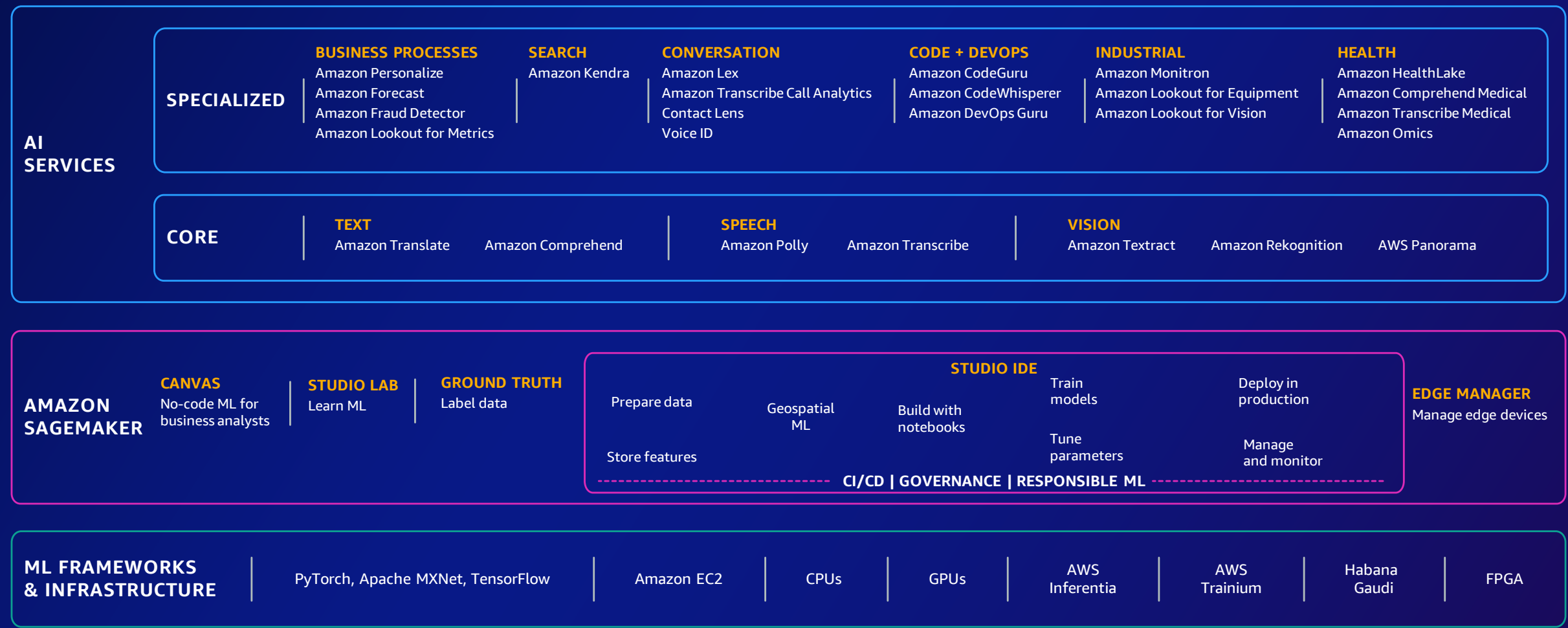
Modern data strategy for better business outcomes

START ANYWHERE



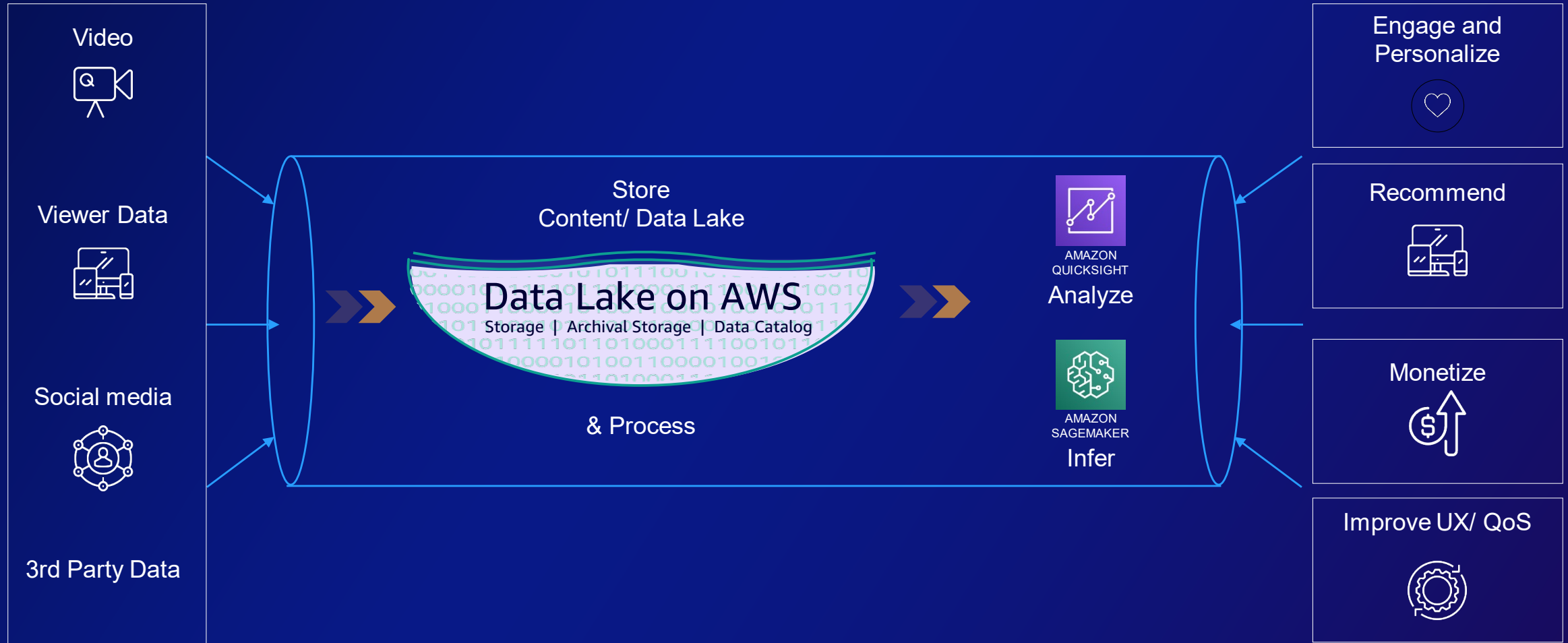
The AWS AI/ML stack

BROADEST AND MOST COMPLETE SET OF MACHINE LEARNING CAPABILITIES



Modern data architecture for media enrichment

INSIGHTS TO ENHANCE VIEWER ENGAGEMENT, PERSONALIZATION, MONETIZATION



Sony Pictures – Modern data strategy



Mahesh Patil

Head (**Infrastructure and Analytics**)
Sony Picture Network India

We are a leading media company in India with meaningful presence in the TV and Digital segments



TV Broadcasting (est. 1995)

A robust portfolio of 26 channels with market leading presence in Hindi entertainment and Sports



Digital platform (est. 2013)

Sony LIV – one of the most-watched OTT video platform in the country



Content production

SPN Productions - Movie production (est. 2013)*;
Studio NEXT – Content production (est. 2018)

SPNI | Challenges at scale



More data than ever was being generated with time. **Speed** and scaling was a concern



Data of all types was stored in **silos** across multiple data stores. No **single source of truth** for data

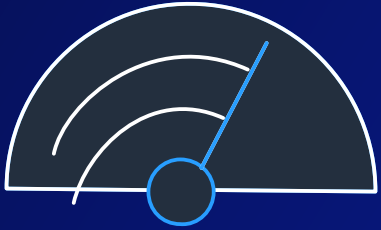


Machine learning and real time cases adoption was challenged **legacy** designs

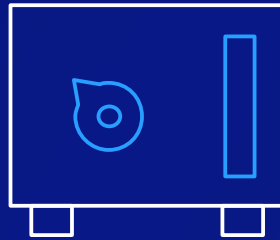


Demand for better **security**, privacy, and compliance regulations

SPNI | Our vision



More agility, and
flexibility with dynamic
scale



Comprehensive data
analytics platform for all
business units



Single source of truth



Faster time to market with
lower TCO



Automated CI-CD and
Better governance



Future ready to
innovate faster

Enterprise data lake architecture



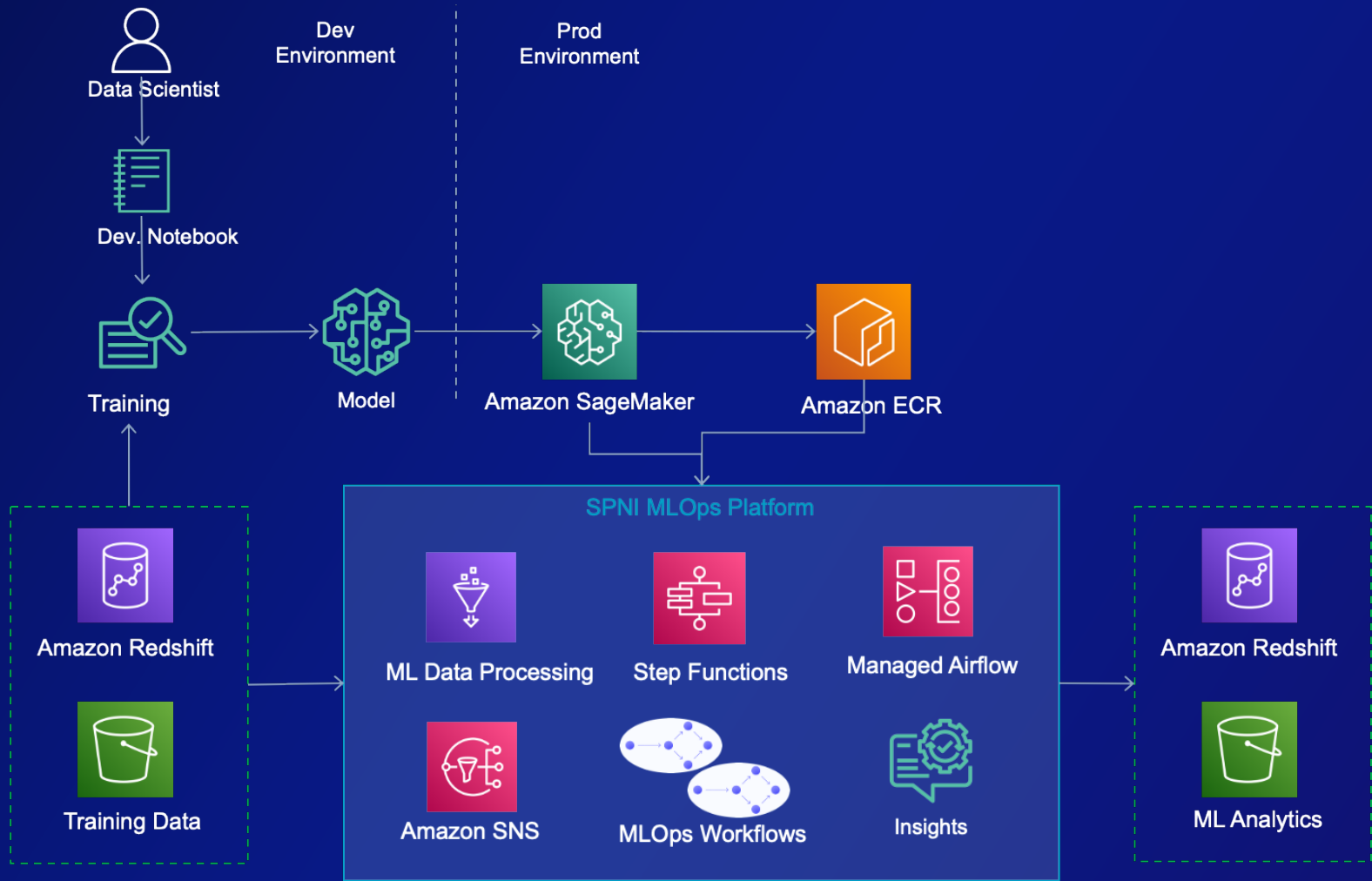
23+ Data Source, 690+Data Sets, 1700+ Database Tables

SPNI – Data lake architecture & Use cases

SPNI future ready data lake architecture



SPNI ML Ops Architecture



Outcome



Modularity



Faster Innovation,
Future Ready



Scalable



Deeper Automation,
Lower TCO



Multi Environment
Deployment



High Availability,
Data Reliability

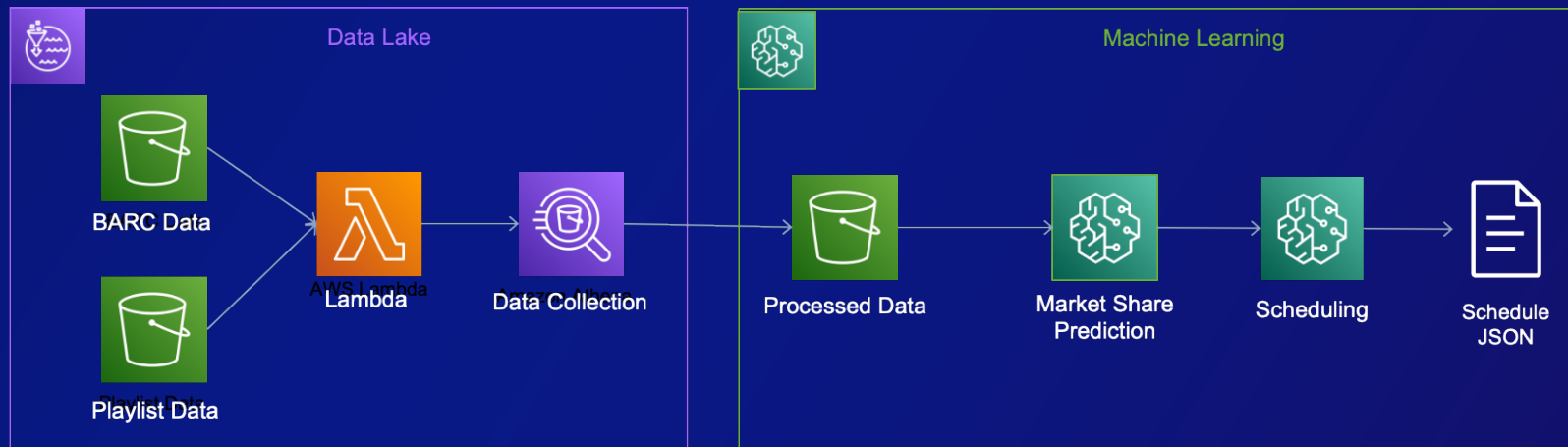
FPC optimal scheduling

Objective

Automated FPC to define scheduling of different episode to improve market share

Solution

- Developed a machine learning algorithm(ML) to prepare FPC weekly plan with an aim to improve the market share of Sony channels
- ML model predicts the viewership share



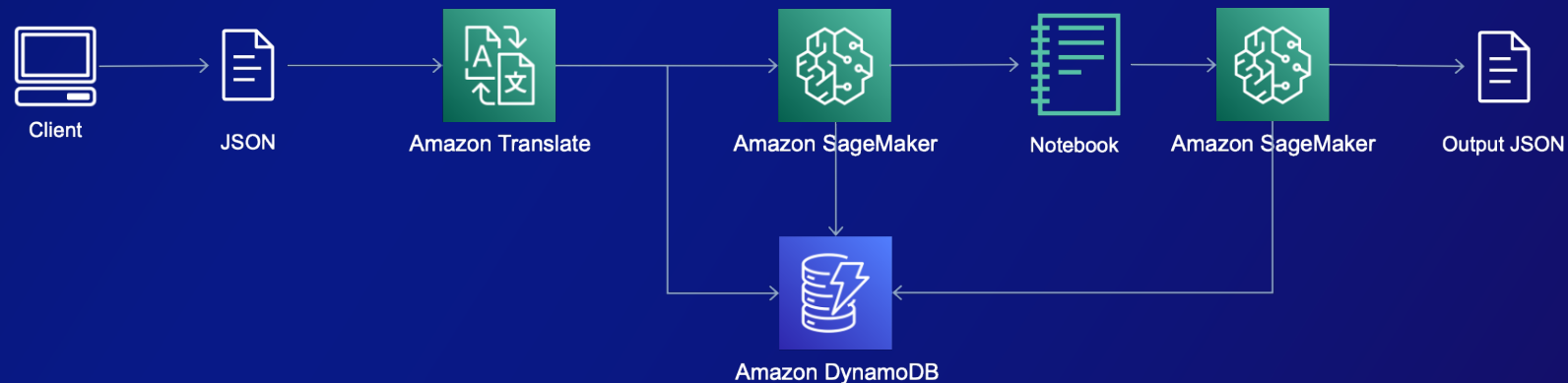
Content plagiarism

Objective

To intelligently compare and detect content plagiarism in a submitted story against the stories present in the database.

Solution

- Translation of input text into a common language for comparison
- Generates a sentence wise comparison analysis for easier detection of plagiarism
- Identifies the most similar stories and flag the suspicious cases for review



Viewership analytics

Objective

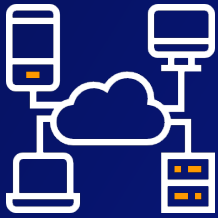
The aim is to build an Image Processing system to extract textual and tabular information for processing monthly subscription reports using the Robotics Process Automation(RPA) tools for viewership analytics.

Solution

- Image pre-processing techniques to improve image quality
- Extracts tabular and textual information from documents (pdf, jpg)



Benefits of building on AWS



**Single source of truth –
One lake**



**Faster innovation,
Future ready**



**Deeper automation,
Lower TCO**



**High speed ETLs and
Dynamic scale**



**High availability,
Data reliability**



High skilled specialists

skillbuilder.aws 

Your time is now

Build in-demand cloud skills *your way*



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Thank you!

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session survey