Build new experiences and reimagine old processes with AI/ML
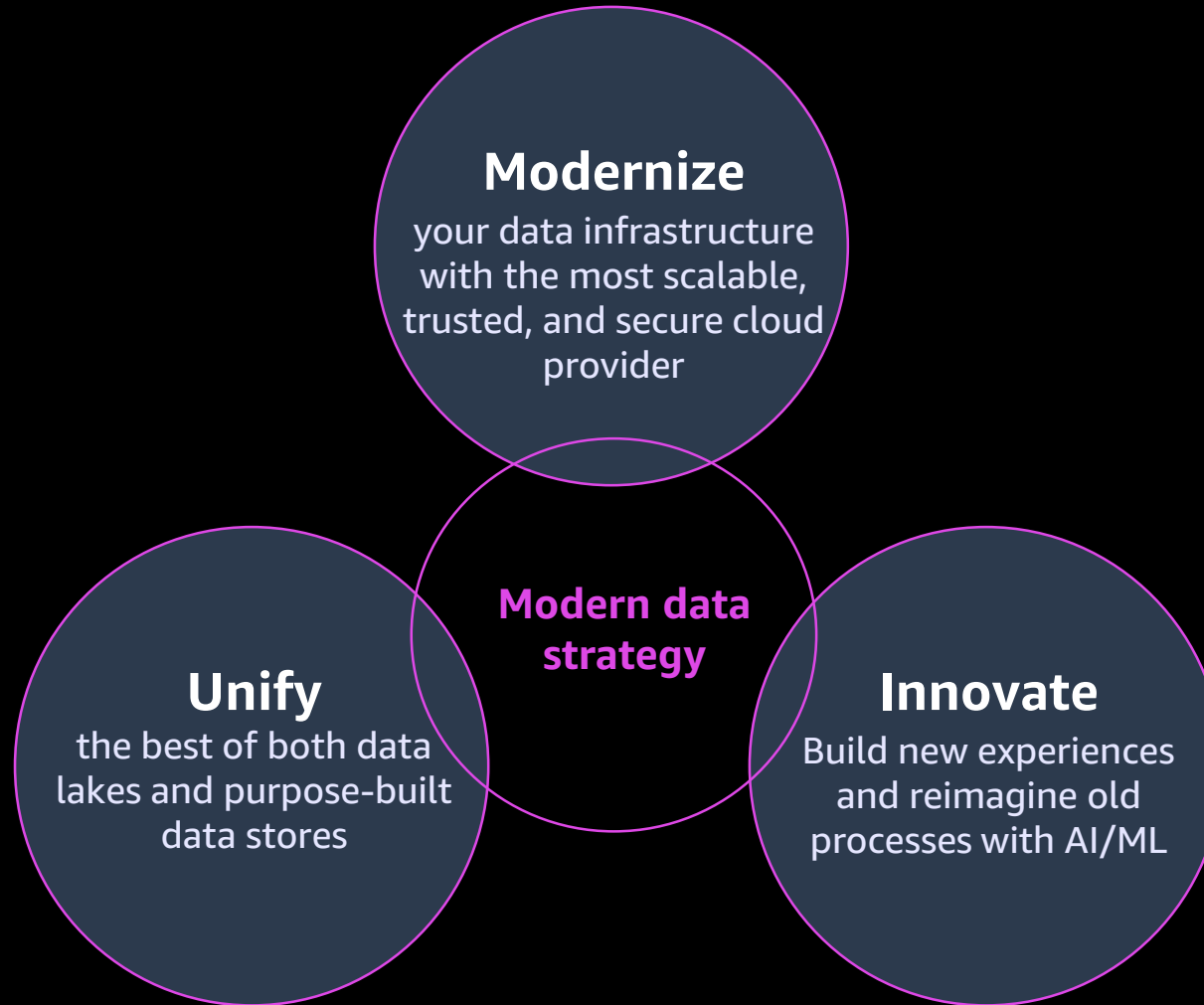
Anna Coniglio

Manager, Analytics Solutions Architecture, ANZ
Amazon Web Services

aws
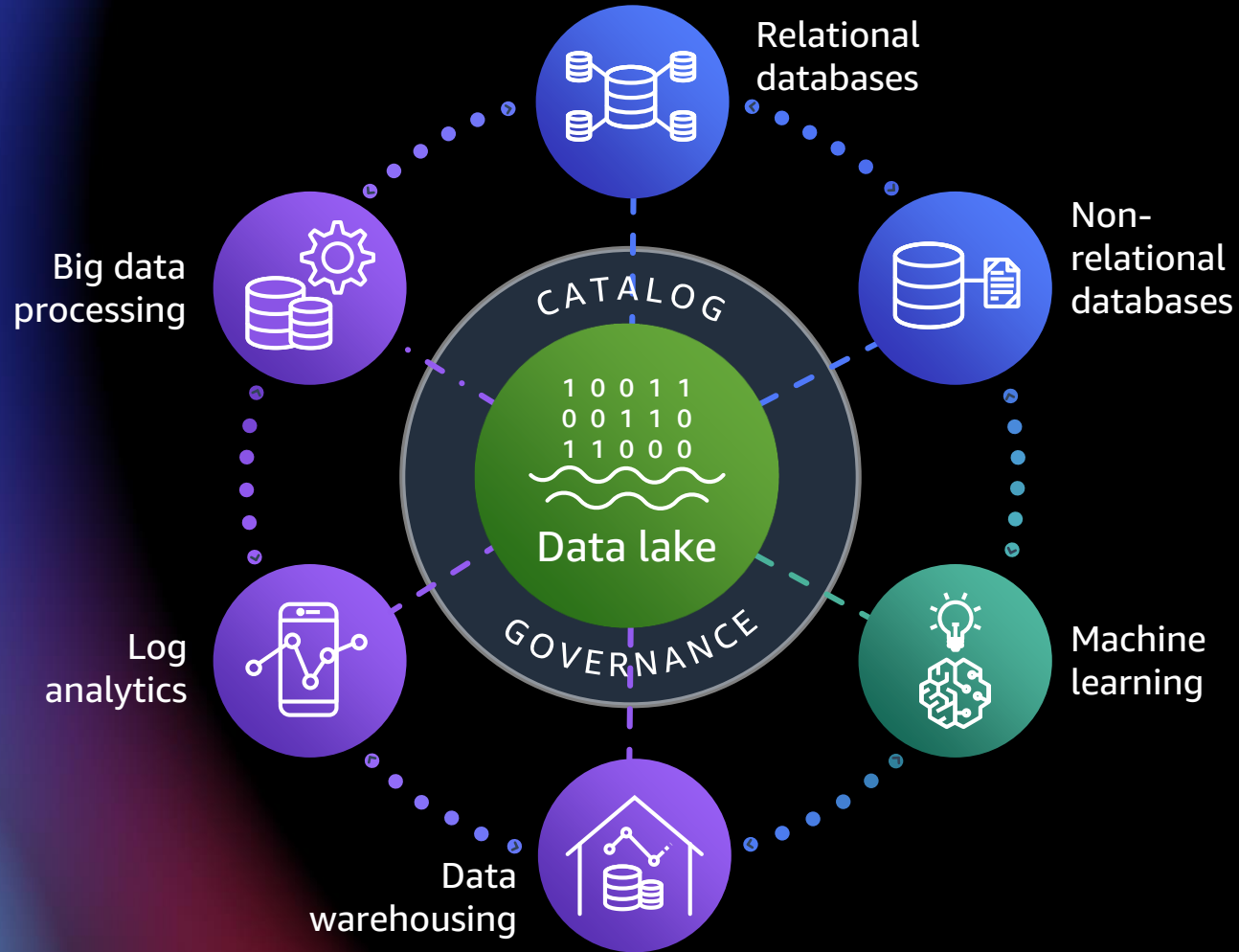
Modern data strategy on AWS

Modernize, unify, and innovate your way to a modern data strategy

Modernize
your data infrastructure with the most scalable, trusted, and secure cloud provider

Modern data strategy

Unify
the best of both data lakes and purpose-built data stores

Innovate
Build new experiences and reimagine old processes with AI/ML

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A Modern Data Strategy

Relational databases

Non-relational databases

Big data processing

CATALOG

10011
00110
11000

Data lake

GOVERNANCE

Machine learning

Log analytics

Data warehousing

Data at any scale

The best price-performance

Seamless data access

Unified governance

AI and ML to solve business challenges

Lakehouse Architecture

Amazon Aurora

Amazon DynamoDB

Amazon EMR

AWS LAKE FORMATION

Amazon Athena

Amazon S3

AWS GLUE

Amazon SageMaker

Amazon Elasticsearch Service

Amazon Redshift

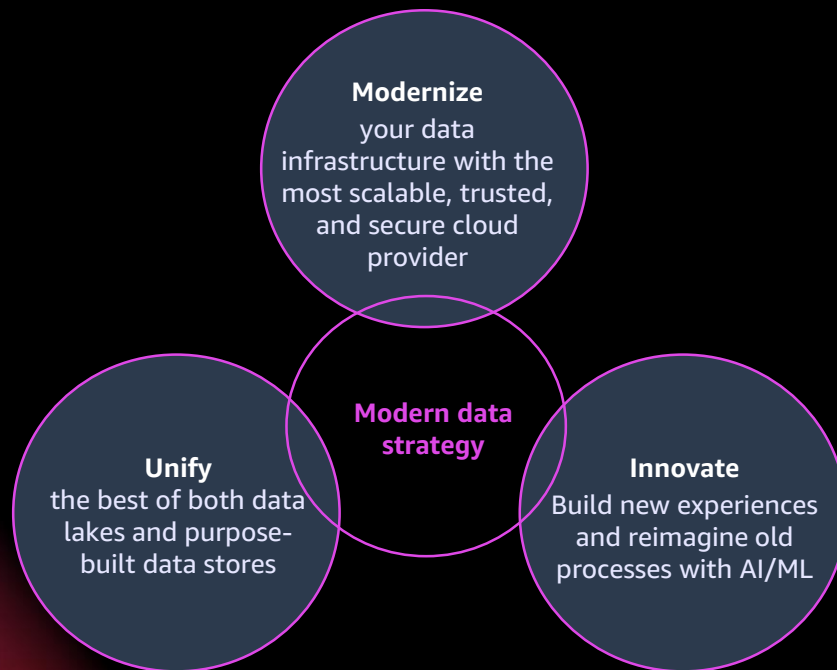**Data at any scale**

The best price-performance

Seamless data access

Unified governance

AI and ML to solve business challenges

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ML services

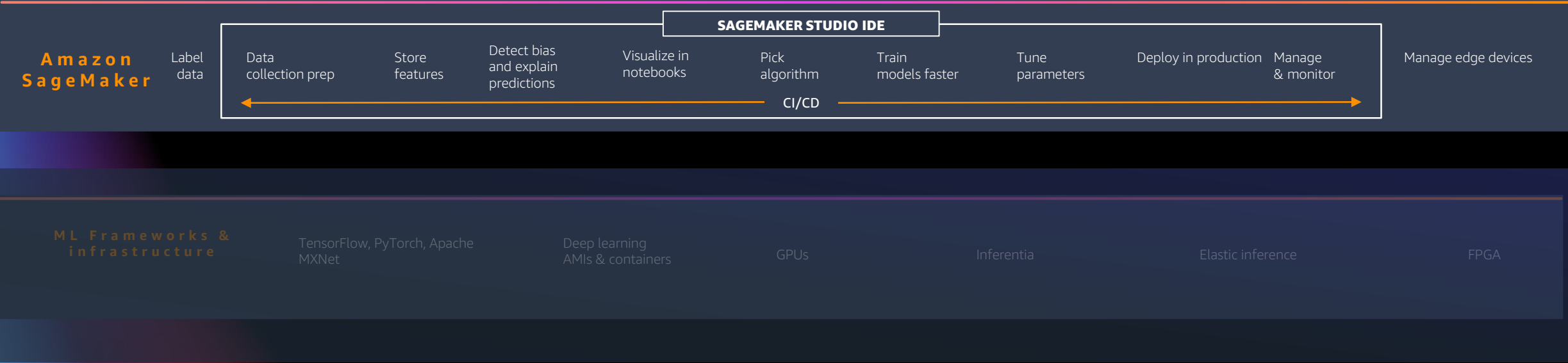| ML Frameworks & infrastructure	TensorFlow, PyTorch, Apache MXNet	Deep learning AMIs & containers	GPUs	Inferentia	Elastic inference	FPGA

ML Services

		SAGEMAKER STUDIO IDE						
Amazon SageMaker	Label data	Data collection prep	Store features	Detect bias and explain predictions	Visualize in notebooks	Pick algorithm	Train models faster	Tune parameters	Deploy in production	Manage & monitor	Manage edge devices

CI/CD

ML Frameworks & infrastructure	TensorFlow, PyTorch, Apache MXNet	Deep learning AMIs & containers	GPUs	Inferentia	Elastic inference	FPGA

AI Services

AI Services

Vision	**Chatbots**	**Business tools**	**Search**	**Healthcare**
Rekognition	Lex	Personalize, Forecast	Kendra	HealthLake
		Fraud Detector		Comprehend Medical
		Lookout for Metrics		Transcribe Medical

Speech	**Text**	**Contact centers**	**Code + DevOps**	**Industrial**
Polly	Comprehend	Contact Lens	CodeGuru	Panorama Appliance and SDK,
Transcribe	Translate	Connect Voice ID	DevOps Guru	Monitron, Lookout for Equipment,
	Textract			Lookout for Vision

Amazon SageMaker

SAGEMAKER STUDIO IDE

Label data	Data collection prep	Store features	Detect bias and explain predictions	Visualize in notebooks	Pick algorithm	Train models faster	Tune parameters	Deploy in production	Manage & monitor	Manage edge devices

CI/CD

ML Frameworks & infrastructure

TensorFlow, PyTorch, Apache MXNet   Deep learning AMIs & containers   GPUs   Inferentia   Elastic inference   FPGA

Machine learning development is complex and costly

Label
data

Data
collection prep

Store
features

Detect bias
and explain
predictions

Visualize in
notebooks

Pick
algorithm

Train
models faster

Tune
parameters

Deploy in
production

Manage
& monitor

aws

AWS brings ML closer to data

Data stores, data lakes, and BI tools with built-in ML

Databases	+	Data warehouses + data lakes	+	Business intelligence tools

Amazon Aurora ML	Amazon Neptune ML	Amazon Redshift ML	Amazon Athena ML	Amazon Quicksight ML

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Learn more with these sessions

SPEAKER	SESSION TITLE
Anna Coniglio	Democratizing Insights: Scaling machine learning beyond the data scientist
Olivia Carline	Embedding analytics into your SaaS applications with Amazon QuickSight
Aneesh Chandra PN	Deliver better customer experiences with machine learning in real-time
Suman Debnath	Sentiment analysis using Amazon Aurora machine learning integration
Ryan Hendriks	Building a document processing solution with Amazon Textract, database, data lakes, and analytics on AWS
Rohini Gaonkar	Image and video analysis with Amazon Rekognition and Analytics on AWS

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Thank you!

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