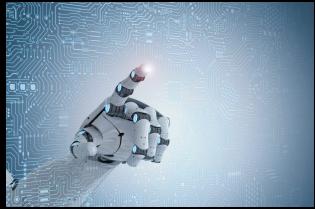




Amazon SageMaker Tutorial

Radhika Arava
Applied Scientist
Amazon Alexa AI

Solving hard problems



Robotics



Virtual reality



Language



Racing



Self-driving cars



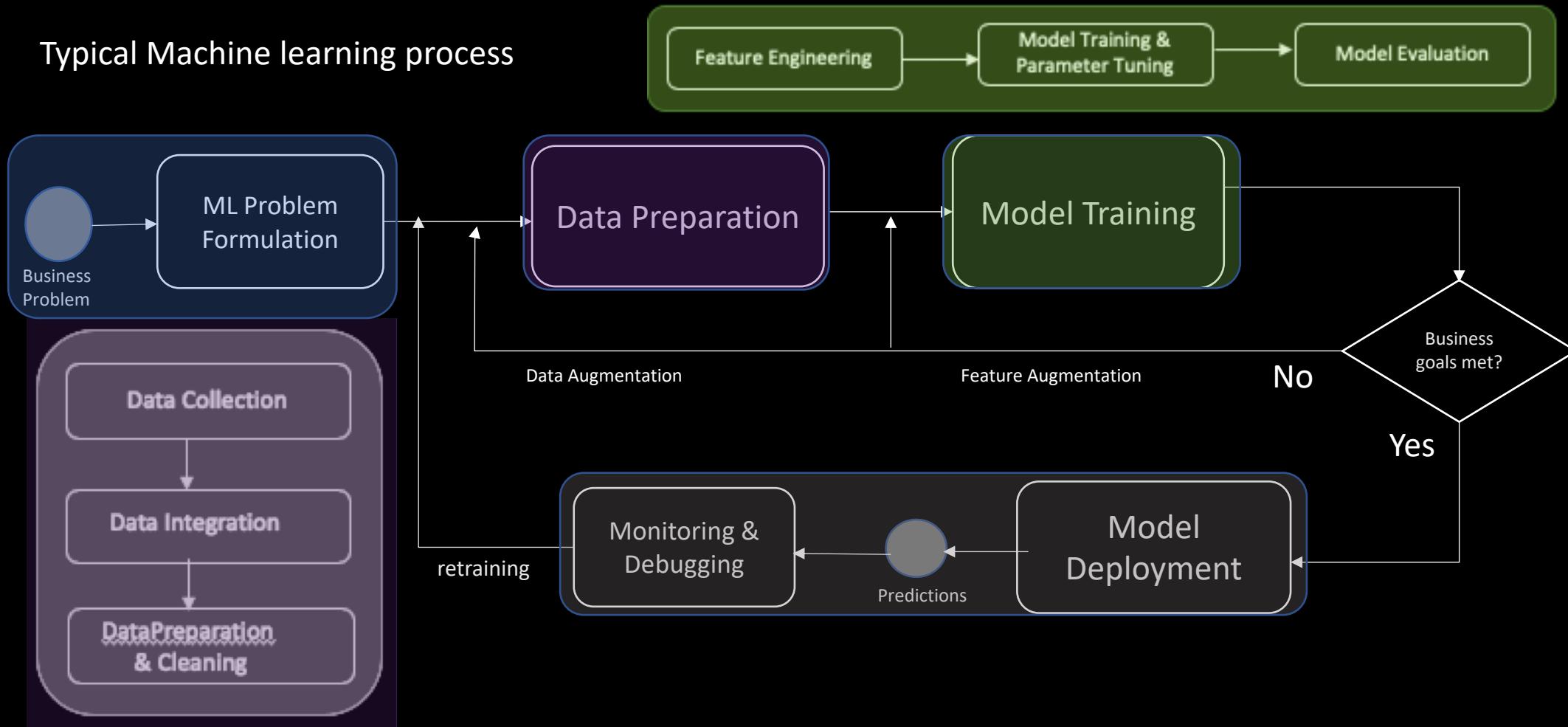
Game Go

Objective of SageMaker

Put machine learning in the hands of every developer
and data scientist.

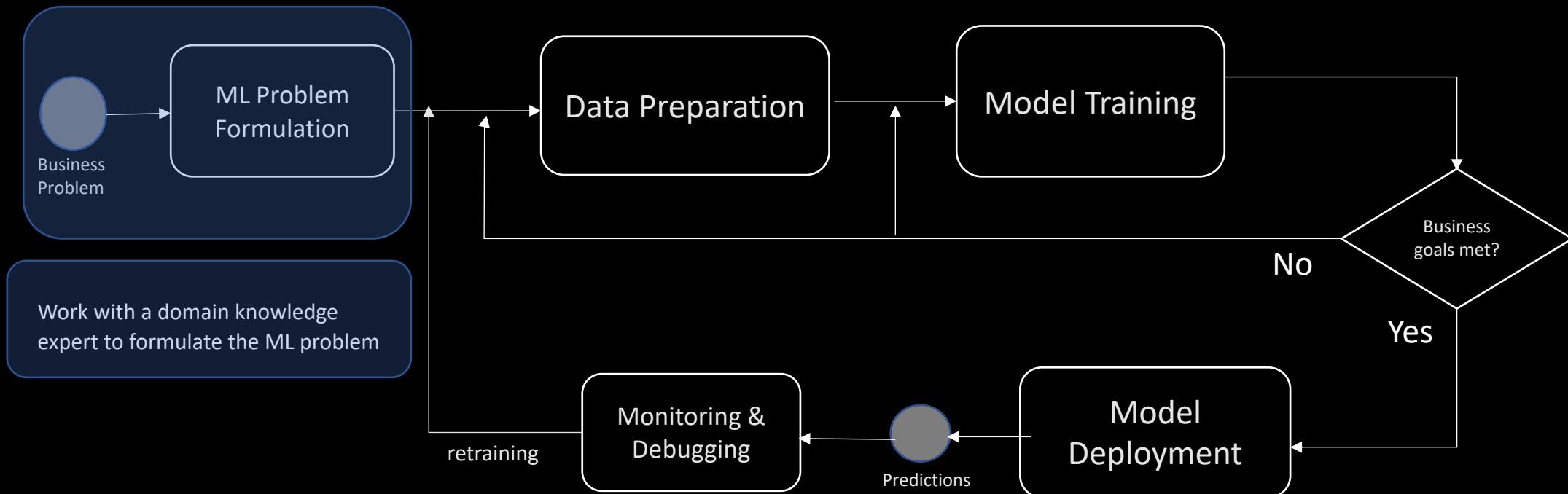
Why is SageMaker needed

Typical Machine learning process



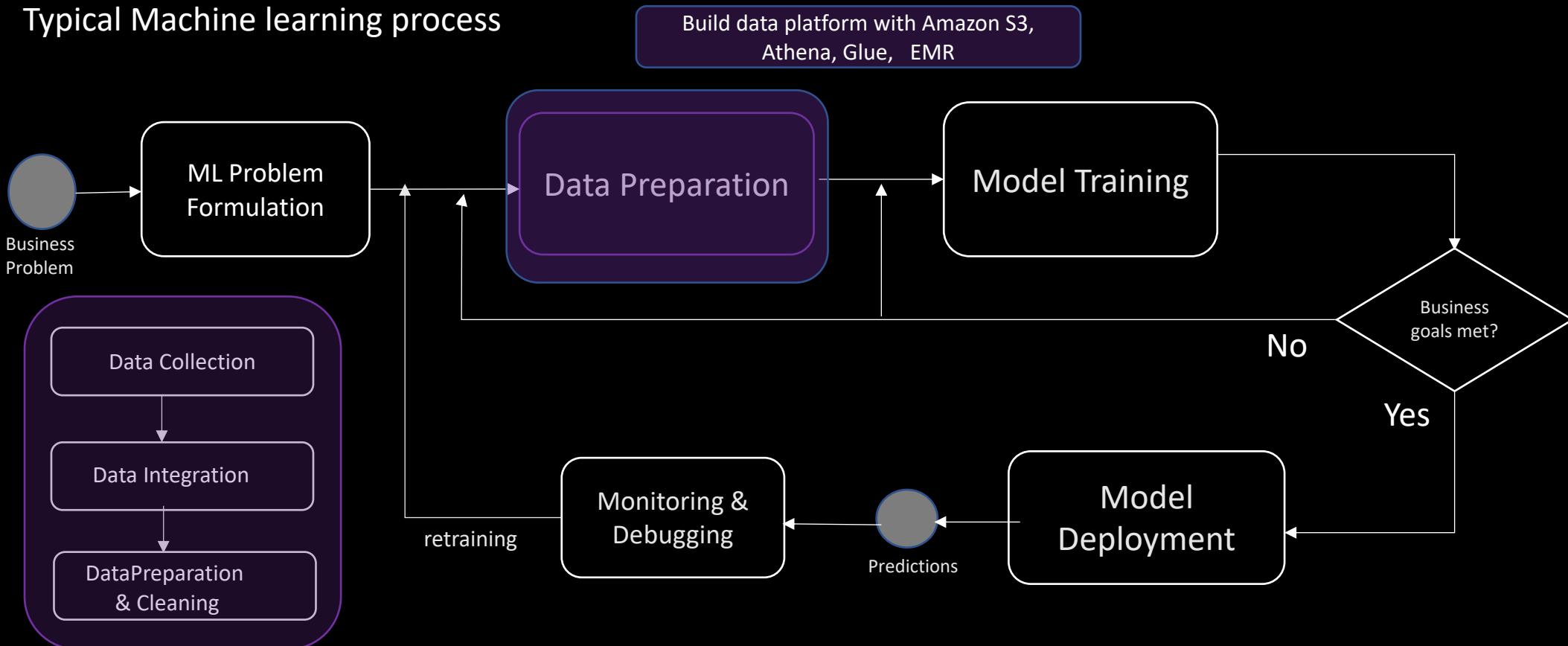
Why is Sagemaker needed

Typical Machine learning process



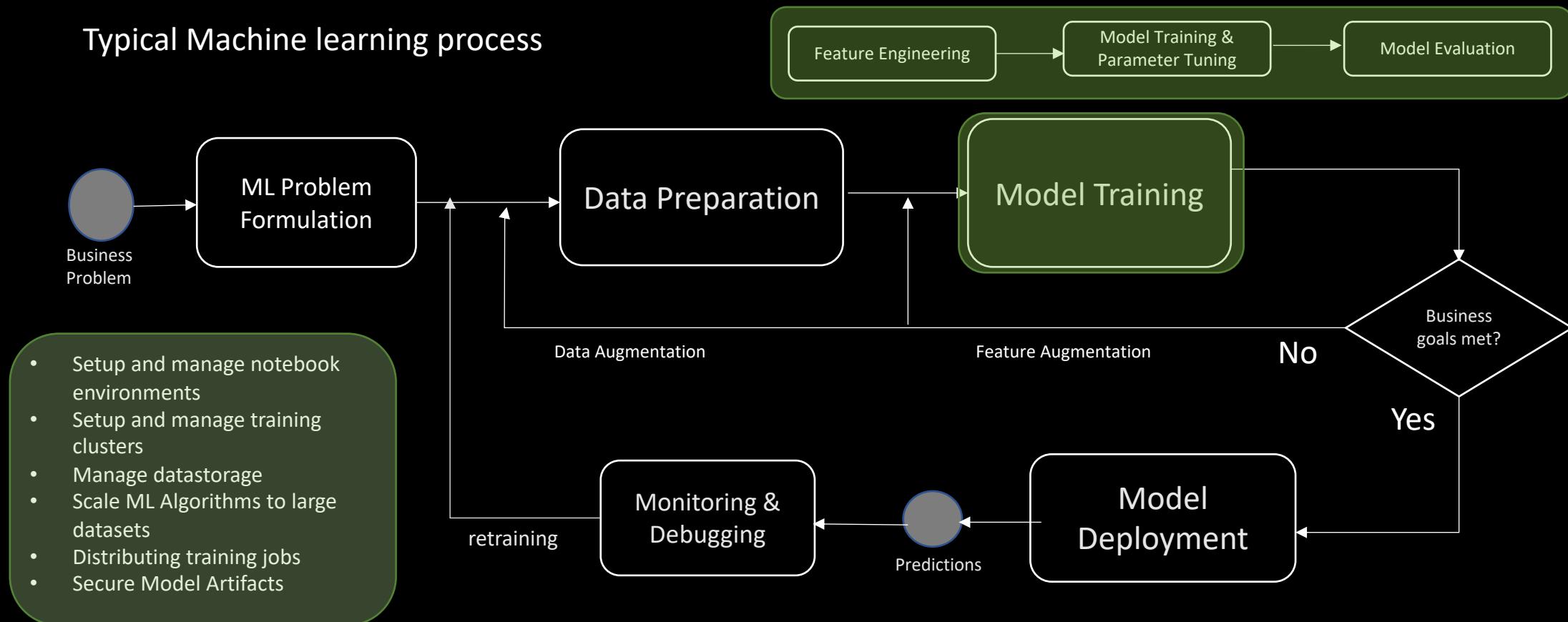
Why is Sagemaker needed

Typical Machine learning process



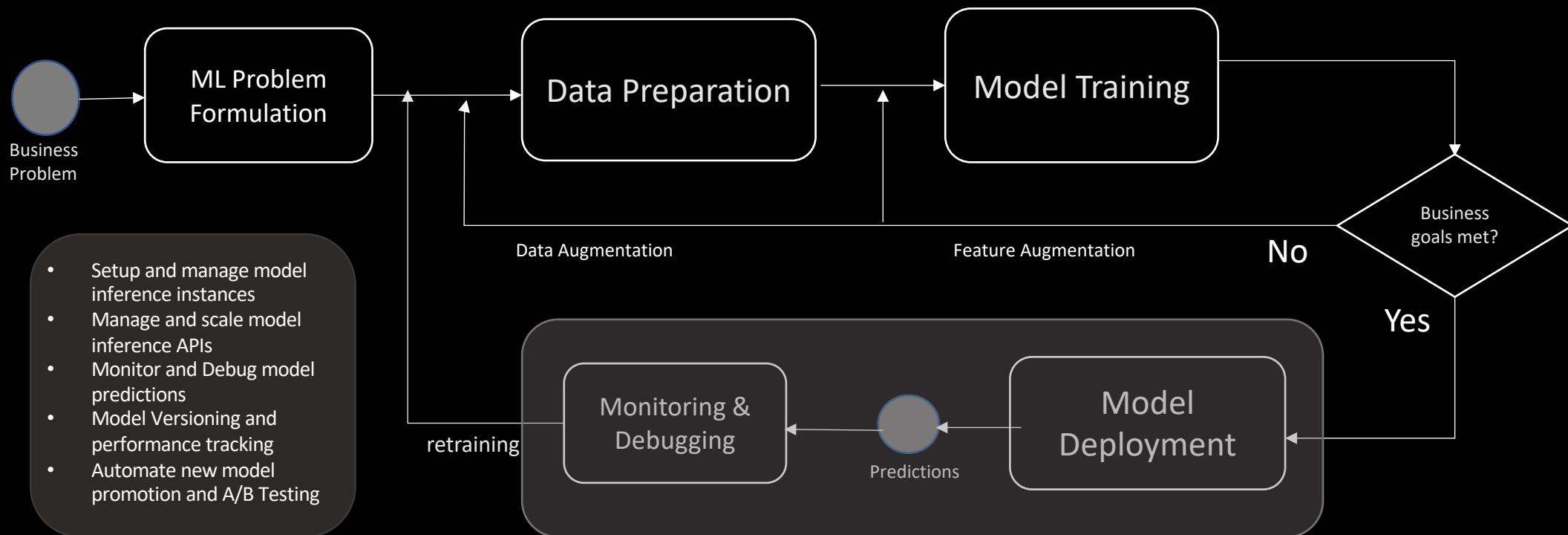
Why is Sagemaker needed

Typical Machine learning process



Why is Sagemaker needed

Typical Machine learning process

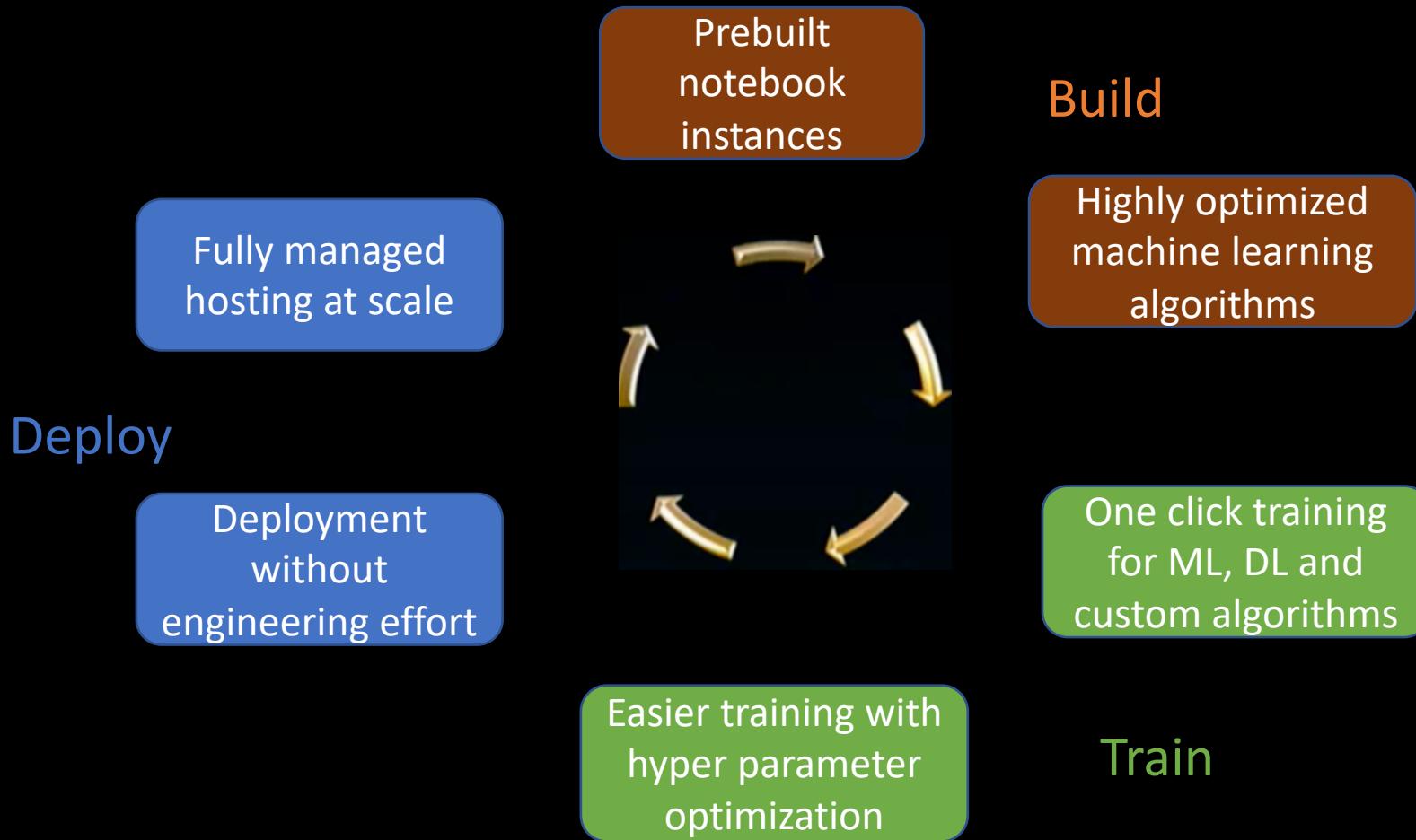




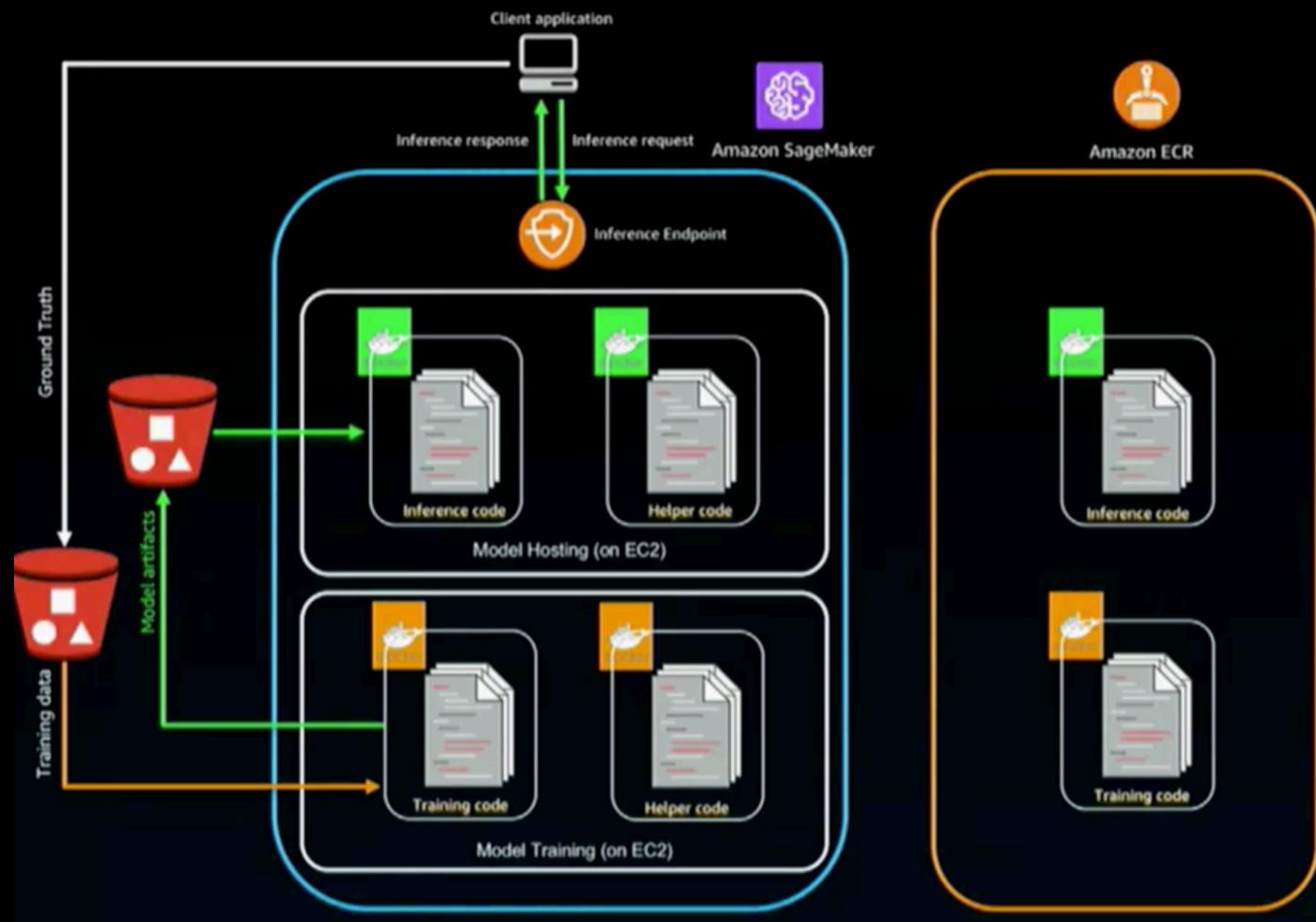
Amazon SageMaker

It is a fully managed service that enables data scientists and developers to quickly and easily build machine learning models into production smart applications.

Amazon SageMaker



Summary



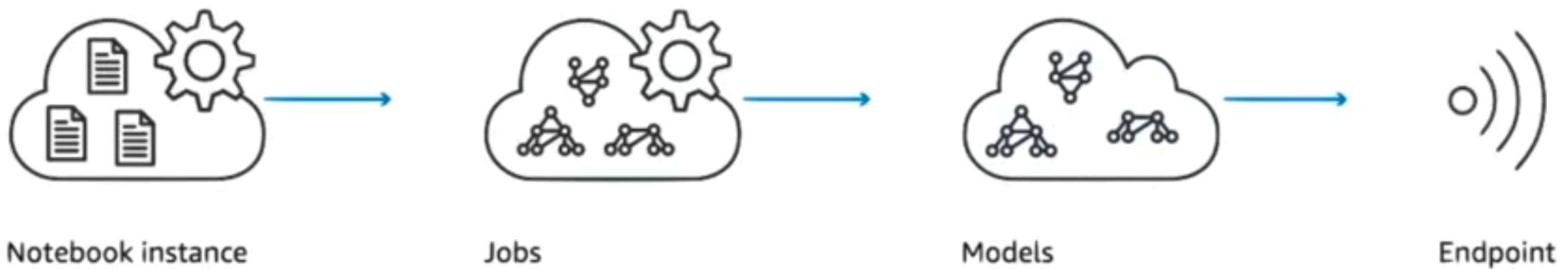
Demo

Thanks

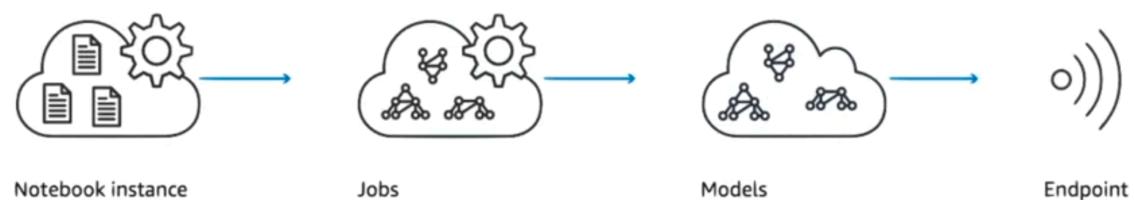
What is SageMaker

- Managed auto scaled instances for machine learning
- Jupyter interface.
- Use for developing, training and inference
- Automates deployment of model

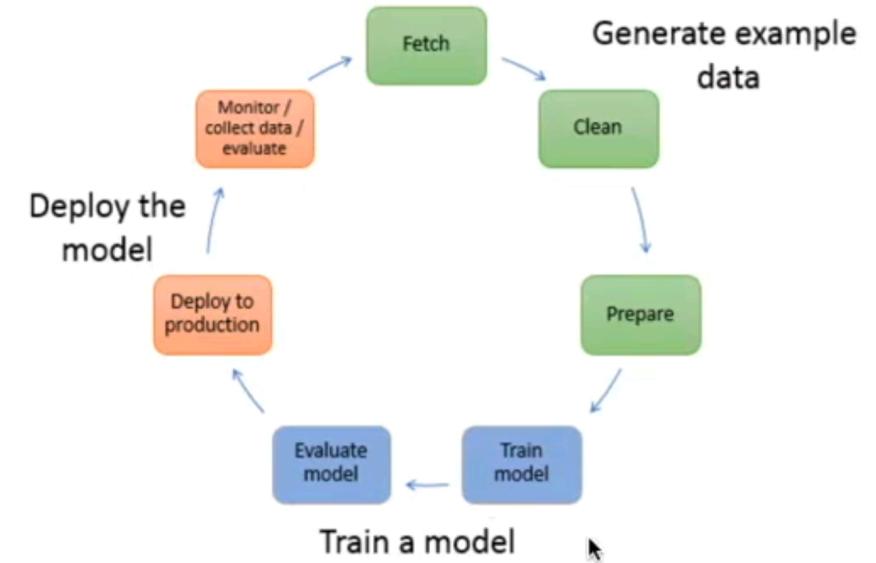
Sagemaker



Machine Learning Stages



Stage	Use Case
Dev	Develop and debug code
Training	Build model using lots of code
Inference	Deploy model into production



Algorithms

- What are the options for training and inference on sagemaker
 - Sagemaker library with built-in algorithms
 - Sagemaker library for Apache Spark
 - Custom Python code that calls for Tensorflow or MXNet
 - Use Custom Algorithms and deploy as Docker images

Sagemaker Demo