Accelerate your ML journey with Amazon SageMaker low-code tools

Claire O'Brien Rajkumar

Sr. Product Manager Amazon Web Services Vadim Omeltchenko

Sr. AI/ML Solutions Architect
Amazon Web Services

Ori Goshen

Co-Founder, Co-CEO
Al21 Labs

AIM314 🔼

Accelerate your ML journey with Amazon SageMaker low-code tool

Speakers

- Vadim Omeltchenko, Al/ML SA, AWS
- Ori Goshen, Co-CEO, Al21 Labs
- Claire OBrien, Product Manager, Amazon Web Services

Relevant Announcements

SageMaker now imports data from EMR

Takeaways

A product demo of SageMaker. How to input, train, and deploy models.

Azure

I don't believe Azure has a similar product. The closest product is Azure Machine Learning capability of Azure Synapse Analytics.

< Section Header < Table of Contents

Why Low-Code

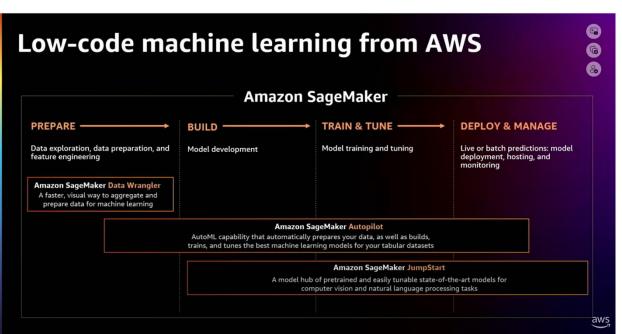
- Typical ML Workflow (Prepare, Build, Train & Tune, Deploy & Manage)
 - Challenges: Requires Deep Expertise, Experimentation is expensive, datascientists are in short supply.
 - Low-Code: Faster ML Workflows, Open & Customizable solutions, great for new and experienced practitioners

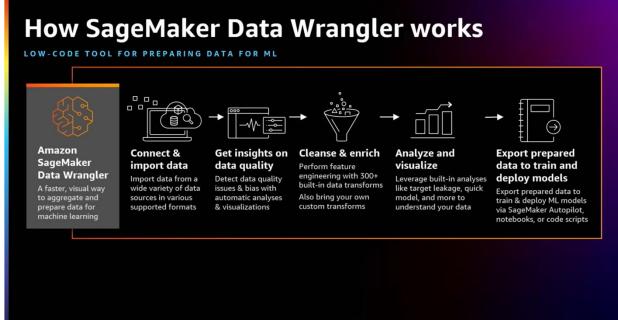
SageMaker Low-Code Overview

- Data Wrangler (Prepare)
 - Visually aggregate and prepare data.
 - Exploratory Analysis using, ML powered to diagnose data quality issues,
 SageMaker Clarify integration to detect and mitigate bias, and Quick Model to estimate quality of model
 - Point & Click Data Transformations and Custom Code Editor and Cod Snippets
 - Can export to Python code or Notebook
- Autopilot (Build, Train, Tune, Deploy)
 - AutoML that to select & tune for best model
 - Feature Selection / Data Split (Train / Test),
 - Choose Training Modes (AutoGluon, Hyper Parameter Optimization
 - Model Visibility, Explainability
 - Deploy to SageMaker Endpoint, can be used to make real-time
- Jumpstart (Prebuilt Models)
 - A model hub of pre-trained and easily tunable models.
 - Using Pre-Trained Models Saves Time
 - Models come from publicly available models
 - Includes Sample Jupyter Notebooks
 - Cloud Formation Templates
 - Ability to bring in 3rd Party Commercial Models

Demos

- Demo of Data Wrangler
- Demo of AutoPilot
- Demo of Jumpstart
- Demo of A21 Labs Language Models





SageMaker Data Wrangler and SageMaker

