Build powerful machine learning models and improve your analysis capabilities without writing any code

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Agenda

Current State & issues with ML value creation

Scale ML value creation by enabling Analyst

Introduction to Amazon SageMaker Canvas

SageMaker Canvas Demo

Customer showcase: Klarna Bank AB

How to get started with Canvas



ML is powerful

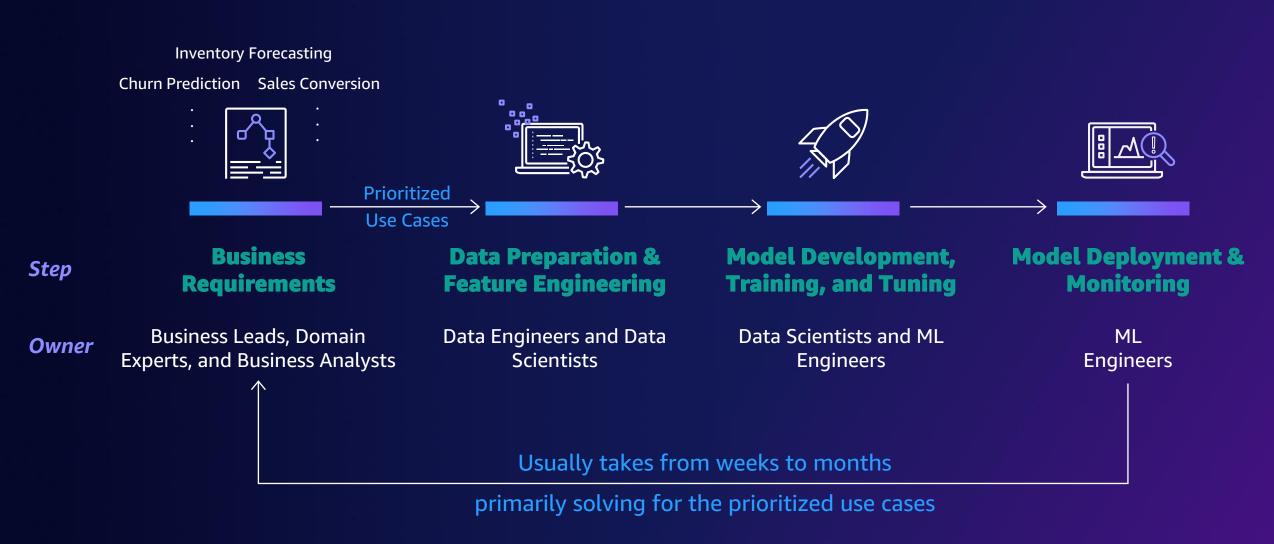








How ML Drives Value Creation Today





How Can You Scale ML Value Creation?

1 — Enhance ML Team Productivity



2 — Expand Your ML Development Team





3 — Democratize ML Innovation

Business analyst require a different set of tools to use ML

Challenges Analysts Face in Building ML



Analysts lack deep
ML expertise, and learning
curve is steep



Business needs explainability and validation from experts



Available no-code ML tools tend to lack transparency and have upfront fees



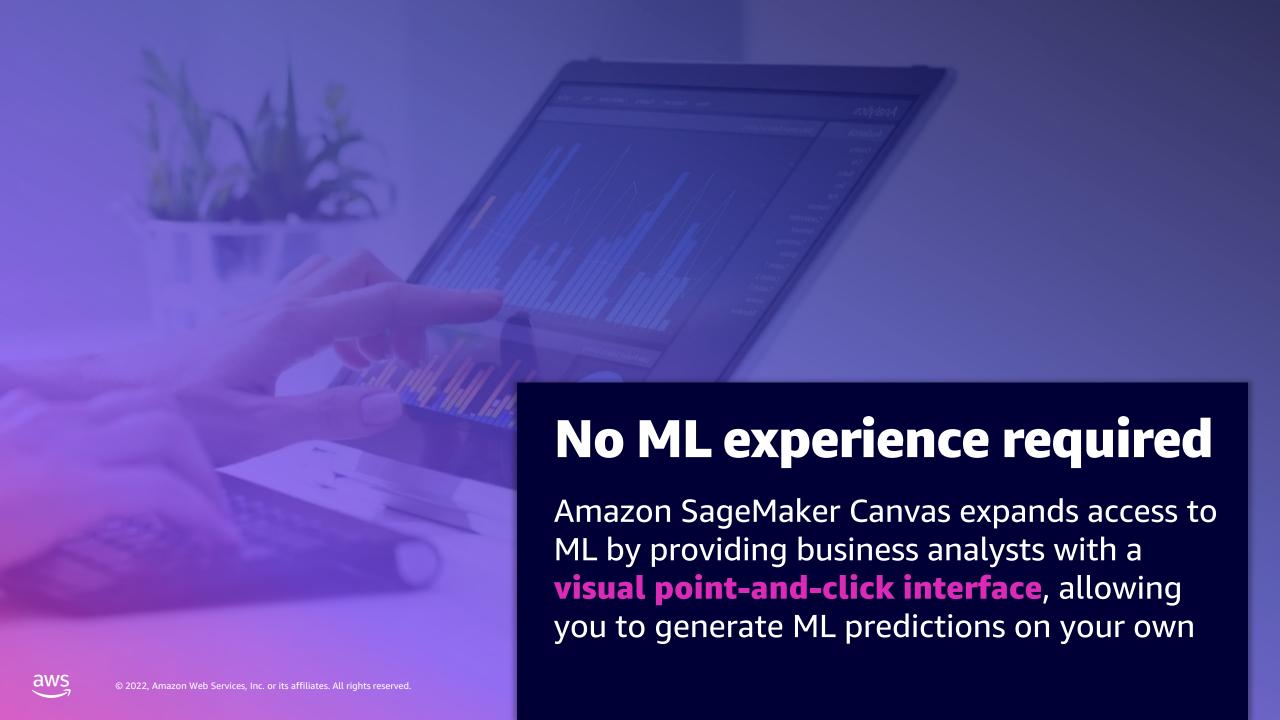
Our mission at AWS

Put machine learning in the hands of every developer, data scientist, and business user



Amazon SageMaker Canvas





Use Amazon SageMaker Canvas to prepare data for ML modeling and generate ML predictions









Can quickly connect to and access data from disparate sources

Leverages powerful
AutoML technology to
automatically train and
build models based on
your dataset

Identifies the best model based on your dataset to generate single or bulk predictions

Integrates with
SageMaker Studio,
making it easy to share
models with data
scientists



Amazon SageMaker Canvas workflow

Choose data source(s)

Prepare the Data

Build Model

Analyze Results

Make Predictions



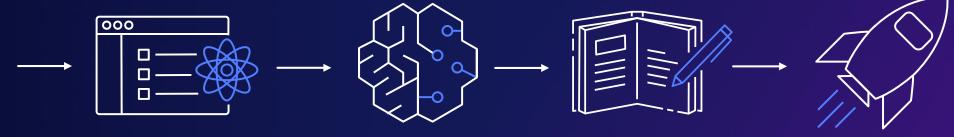


Amazon Simple Storage Service (Amazon S3)



Amazon Redshift





linear regression, classification, forecasting

CSV file types





Demo - Product delivery on time



Will my package arrive on time?

Based on previous shipping logs and product information...

Is it possible to predict if my package will arrive on time?



CUSTOMER SHOWCASE

Klarna Bank

Vaibhav Singh(he/him)
Senior Data Science Manager
Klarna Bank AB



Klarna's Products

Consumer Products
Klarna App
Shopping
Bank with Klarna

2 — Klarna's Open Banking

Retailer Products

Shopping & Solution
The Merchant Portal

Klarna in numbers

400K

retail partners +38%/year

78K+

physical stores +59%/year **2M**

TRXN/ day +29%/year

45M

app downloads+91%/year

23M

MAU +41%/year 21M

saved items +500k/month



A global solution that fits regional needs



6

continents

45

core markets

46

local offices worldwide

Machine learning at Klarna







Fraud Risk



Identification



Personalization



Forecasting



Marketing Campaigns



How is Klarna using AWS ML Services







Data Exploration

Sagemaker Notebooks

Data Wrangler

Training

Sagemaker Training Jobs

AWS Batch

Serving

Sagemaker Endpoints
AWS ECS

Sagemaker Pipelines



Why Canvas

Users and Growth

Number of Analysts vs Data Scientists
Speed to market

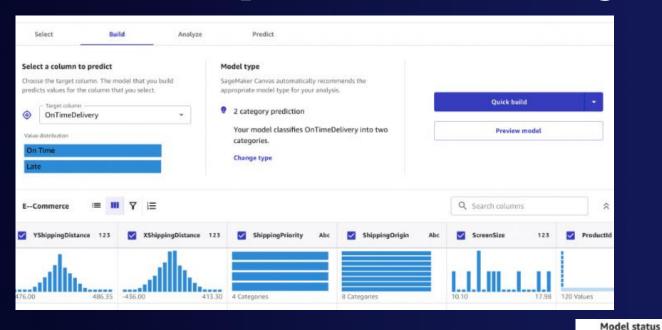
Model Explanations
Impact of features
Model Interpretation
Share notebooks with Data Scientists
Batch and Single Predictions

2 Pata Cleaning
Fast Exploration of Data Sets
Data Joins possible without code
Removal of columns

Added Benefits

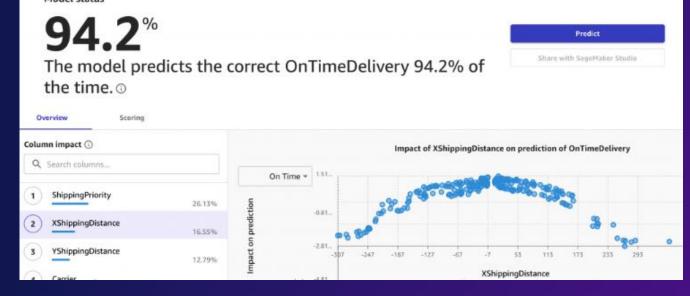
4 AutoML Variations
Hyperparameter Tuning

Model Explanations - Is your model good?



Understanding the Data

Understanding the Features

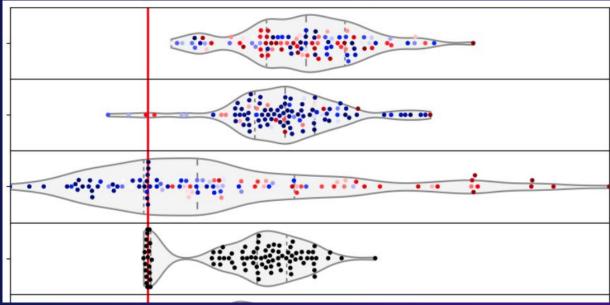


Model Explanations - Is your model good?



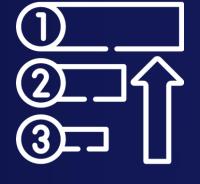
General Performance Metrics

SHAP Value Report



Future use cases of Canvas at Klarna







Evangelise

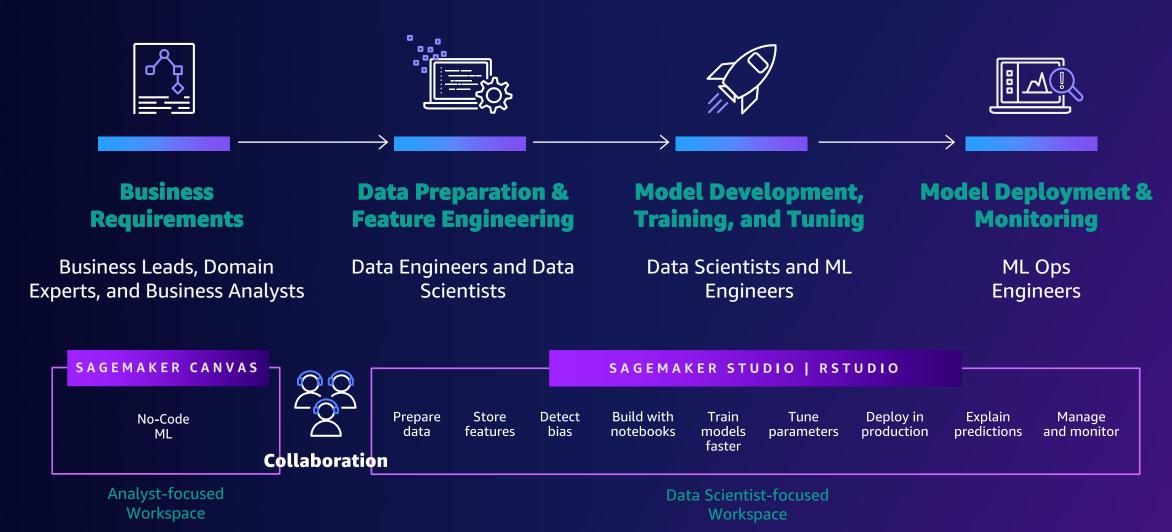
Prioritise

Scale



ML from Months to Hours

WITH A TAILOR-MADE WORKSPACE FOR ANALYSTS AND A TAILOR-MADE WORKSPACE FOR DATA SCIENTISTS



Call to action



Amazon SageMaker Canvas

Get Started with Amazon SageMaker Canvas



<u> Amazon SageMaker Canvas Pricing</u>

Pay based on usage



AWS Machine Learning Blog

Learn the latest news on AWS Machine Learning

Want to test on your own?

SageMaker Canvas provides a Free Tier for two months:

- Interactive sessions up to 750 hours/month
- Up to 10 model creation requests/month



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Thank you!

Ana Chevasco Solutions Architect AWS Vaibhav Singh Senior Data Science Manager Klarna Bank





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