



SageMaker Canvas & AutoPilot Tour

SUMMARY

ML adoption in the midwest is not as prominent as it is in tech hubs in the US. Our goal was to move the needle towards increased AI/ML adoption in the midwest. We accomplished this by expanding our training sessions to over 2,000 IT professionals while contributing to the client solution. We showed how simple it can be to use AWS SageMaker Canvas and AutoPilot to try out thousands of model and parameter combinations. They experienced first-hand how results take hours, not days and weeks.

SOLUTION

We demonstrated AWS Sagemaker Canvas and AutoPilot tools to over 2,000 IT Professionals.

Using real data, we trained, tested, and deployed a ML model to the cloud. We dove into our data cleaning process and the ease of using AutoML to train hundreds of models with thousands of parameter combinations, quickly reaching a production-ready model. AWS SageMaker Clarify generated a report explaining the model's predictions. The model was an XGBoost deployed to a SageMaker Endpoint for inferences. These real-world examples showed AWS SageMaker' ability at creating a solution matching human-made models, saving hundreds of hours.

RESULTS

AWS SageMaker Canvas allowed IT professionals without significant coding experience to prepare and explore datasets, making it more accessible. AWS SageMaker Clarify enabled delivery of explainable and understandable model reports. AWS SageMaker AutoPilot showed the cloud service's ability to iterate across models and parameters to output the best options for deployment. The client received an in-depth understanding of the benefits AI/ML can provide, learning how to save money and time by deploying to the AWS environment. This resulted in 10x increase in team productivity and over a 50% decrease in TCO.

CHALLENGE

Showcase Predictive Power of Features Related to Insurance Risk

- By understanding which features contribute greatly to life insurance risk, we can make the application process more efficient, improving customer experience.

Making AI/ML Solutions Accessible

- The Midwest lacks AI/ML adoption. Our goal was to increase awareness of easy to implement solutions to help the area grow in the space.

Demonstrate Comparable Results as Human-trained Models

- Showcase the value of handing over tasks to cloud computing, freeing up individuals for more exploratory work and analysis without giving up accuracy and effectiveness.