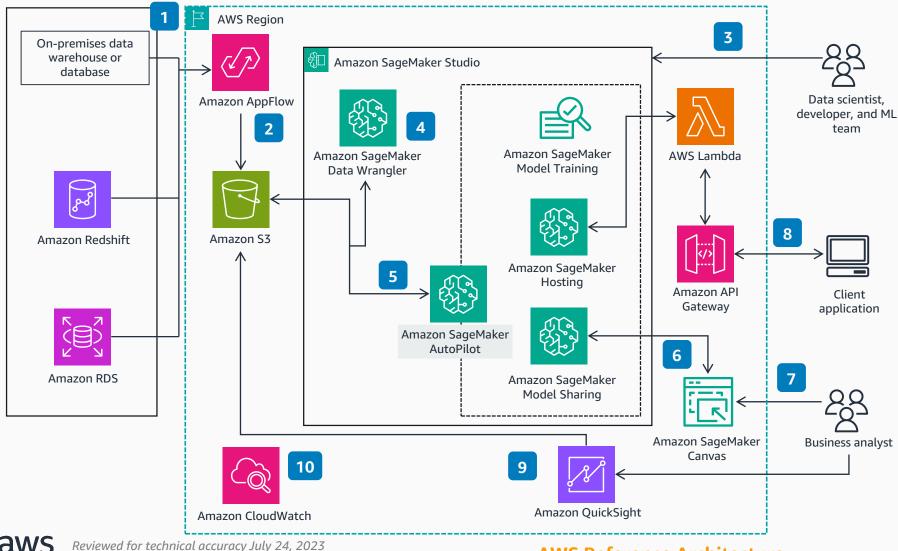
Guidance for Predicting Loan Defaults for Financial Institutions on AWS

This architectures shows how to predict loan defaults using AWS AutoML and serverless technology.



- Source loan data from different data sources, such as external data sources or AWS services, including Amazon Relational Database Service (Amazon RDS) and Amazon Redshift.
- Import the raw tabular data files into Amazon
 Simple Storage Service (Amazon S3) directly or
 use Amazon AppFlow to automate the data
 movement.
- Data scientists or ML teams can use Amazon
 SageMaker Studio, an integrated development
 environment (IDE) for ML to perform and manage
 ML steps.
- Optionally, you can use Amazon SageMaker Data Wrangler for ML data preparation, joining, and insights and create an Amazon SageMaker AutoPilot job for training, tuning, and deploying the ML model.
- Automatically build, train and tune the best ML model using SageMaker AutoPilot. Select the best model from a leaderboard for model performance and accuracy requirements. Deploy this model to production with just one click using Amazon SageMaker Hosting or iterate with the recommended models in SageMaker Studio.
- 6 Share the best model in one click with business teams using Amazon SageMaker Model Sharing.
- Business teams or analysts can use Amazon
 SageMaker Canvas, import the model, and
 generate accurate ML predictions on their own—
 without requiring any ML experience or having to
 write a single line of code.
- External application(s) can use Amazon API
 Gateway and AWS Lambda to invoke SageMaker
 endpoint using SageMaker Hosting for inference
 request.
- Store the inference results in Amazon S3. Build interactive business dashboards and paginated reports on inference data using Amazon QuickSight.
- Monitor training jobs and model endpoints either in SageMaker Studio or using Amazon CloudWatch metrics.