

SageMaker Model Quality Report

This report contains model insights and model quality information for candidate **automl-2023-11-28-21-21-53-263i3-001-69249ae2**. The candidate was generated by the AutoML job **automl-2023-11-28-21-21-53-263**.

The **automl-2023-11-28-21-21-53-263i3-001-69249ae2** candidate is a trained **Regression** model whose objective is to **Minimize** the "**MSE**" quality metric.

The mean squared error (MSE) is the average of the squared differences between the predicted and actual values. It is used for regression. MSE values are always positive: The better a model is at predicting the actual values, the smaller the MSE value is. When the data contains outliers, they tend to dominate the MSE, which might cause subpar prediction performance.

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Autopilot job details

	Title	Value
Autopilot candidate name	automl-2023-11-28-21-21-53-263i3-001-69249ae2	
Autopilot job name	automl-2023-11-28-21-21-53-263	
Problem type	Regression	
Objective metric	MSE	
Optimization direction	Minimize	

Model quality report

Model quality information is generated by the prebuilt SageMaker Model Monitor container. This report is for a **Regression** problem. **511** rows were included in the evaluation dataset. The evaluation time occurred at **2023-11-28T21:53:22.631Z**.

Metrics table

Metric Name	Value	Standard Deviation
mae	2.600148	0.037531
mse	19.217434	1.390940
rmse	4.383769	0.157051
r2	0.785938	0.012512

Note The values of the performance metrics in this table may differ from the values reported by Autopilot. The differences tend to appear when training on smaller datasets. The values for the metrics in the table use all the training data once to estimate the performance of a model. Autopilot scores are calculated using k-fold cross-validation resampling method that train a machine learning algorithm on different subsets of the dataset. A score is then calculated for overall performance by averaging the resulting performance metrics for each trial.