

Amazon SageMaker Canvas

Use AWS Academy in Virginia

Assignment

- I have uploaded White Wine quality data set to BB in **archive.zip** file (source: <https://www.kaggle.com/datasets/piyushagni5/white-wine-quality>)
- Create a report and explain the following actions:
 - Divide the data set to training and test set
 - Add the data set to SageMaker Canvas
 - Select the columns that you think add value in prediction
 - Build the model using quick build
 - Check accuracy when the columns are added or removed
 - Predict values using test data set
 - Create different versions
 - Try standard build and share with other studio users

Main Learning

The model's target value was set to "Quality". Here, we are classifying the quality of white wines.

The quick model required less time compared to standard model, but with standard model the sharing option with different users gets unlocked. This helps the shared user to deploy the shared model with sagemaker studio.

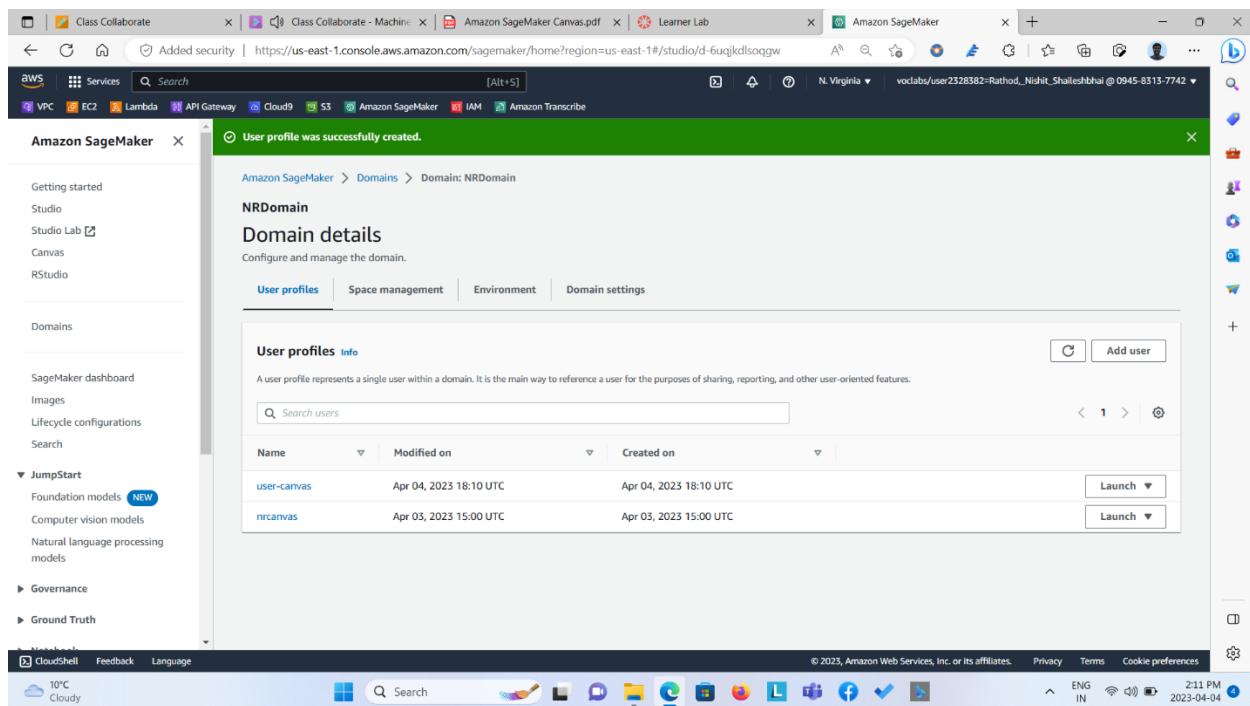
The quick model gave accuracy of around 68% where no preprocessing was done. Whereas, standard model gave accuracy of around 67% accuracy. This is because I have deleted the column seeing the correlation value from the statistics of the columns. The least three significant features were removed. After removing three features, the accuracy didn't fall drastically. With this it was confirmed that if the correlation value is least, than that particular feature shouldn't be considered as it doesn't impact the overall model significantly.

Steps followed -

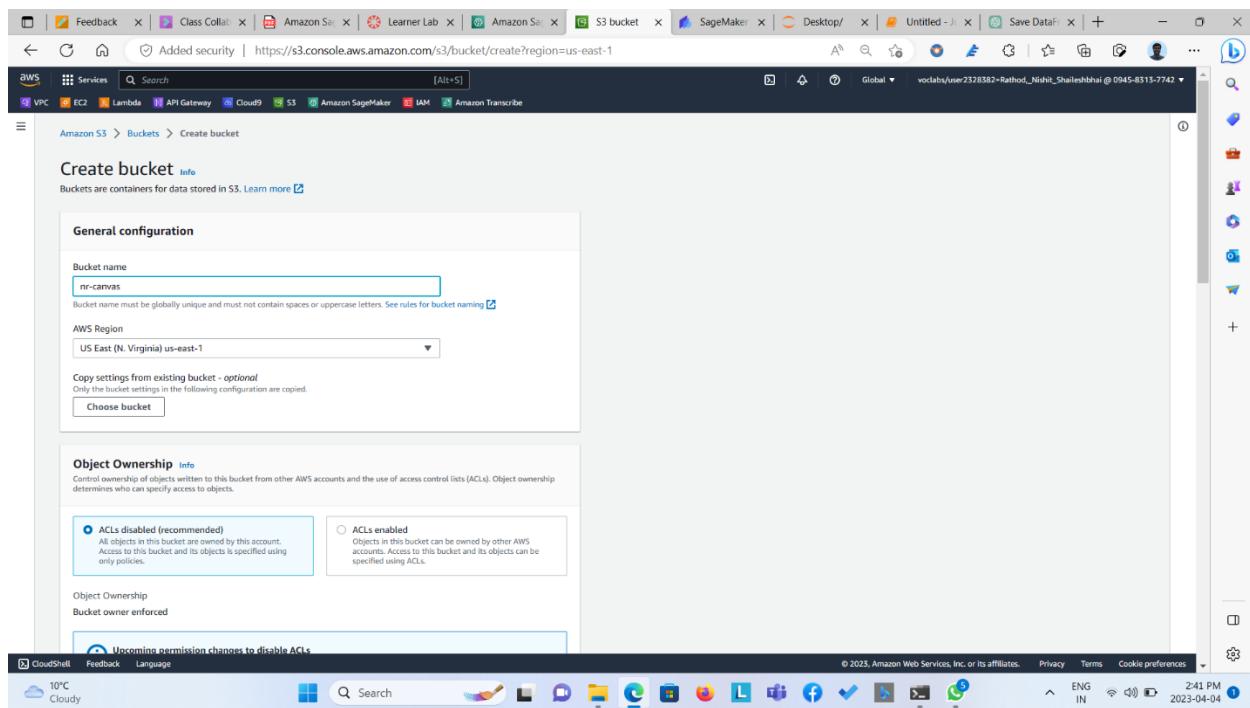
Step 1: Created Domain and two users.

The screenshot shows the Amazon SageMaker console interface. The left sidebar has a 'Domains' section selected. The main content area shows a table titled 'Domains (1) Info' with one entry: NRDomain, d-6uqjkdlsqgw, InService, created on Apr 03, 2023, 14:50 UTC, modified on Apr 03, 2023, 14:55 UTC. A 'Create domain' button is visible at the top right of the table. The browser address bar shows https://us-east-1.console.aws.amazon.com/sagemaker/home?region=us-east-1#studio.

The screenshot shows the Amazon SageMaker console interface. The left sidebar has a 'User profiles' section selected. The main content area displays a message: 'User profile was successfully created.' Below it, a warning message states: 'No new Jupyter Lab 1 version apps can be created from March 30, 2023 onwards, with only Jupyter Lab 3 version app creation being supported. All existing apps running on Jupyter Lab 1 version will be removed on April 30, 2023.' A 'Learn more' link is present. The browser address bar shows https://us-east-1.console.aws.amazon.com/sagemaker/home?region=us-east-1#studio/d-6uqjkdlsqgw.



Step 2: Created S3 Bucket and Uploaded Train and Test Dataset.



The screenshot shows the second step of the AWS S3 Bucket Creation Wizard. The title bar says "Create bucket - Step 2 of 3: Set Bucket Encryption". The main content area is titled "Default encryption" with a "Info" link. It states that server-side encryption is automatically applied to new objects stored in the bucket. Under "Encryption key type", the radio button for "Amazon S3 managed keys (SSE-S3)" is selected. Below it, there is a "Bucket Key" section with a note about KMS encryption, a "Learn more" link, and radio buttons for "Disable" and "Enable". A "Tags (0) - optional" section is present with a note about tracking costs and organizing buckets, and an "Add tag" button. A "Advanced settings" section is partially visible. A note at the bottom says "After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings." At the bottom right are "Cancel" and "Create bucket" buttons.

The screenshot shows the first step of the AWS S3 Upload Wizard. The title bar says "Upload - Step 1 of 3: Select Files". The main content area is titled "Upload" with an "Info" link. It instructs users to add files and folders to upload to S3. A "Files and folders" section shows two CSV files: "winequality-white-test.csv" (85.8 KB) and "winequality-white-train.csv" (199.8 KB). Below this is a "Destination" section with a "Destination" field containing "s3://nr-canvas" and a "Destination details" link. A "Permissions" section is also present. The bottom of the screen shows a Windows taskbar with various icons and system status.

The screenshot shows the AWS S3 Management console with a successful upload message: "Upload succeeded". The summary table indicates 2 files uploaded successfully (Succeeded) and 0 files failed. The "Files and folders" tab is selected, showing two CSV files: "winequality-white-test.csv" and "winequality-white-train.csv", both of which have a status of "Succeeded".

Step 3: Opened Canvas, Imported the dataset from S3 Bucket and Selected the Train Dataset for training.

The screenshot shows the SageMaker Canvas interface. The left sidebar lists "Amazon SageMaker Canvas", "Ready-to-use models" (which is selected), "My models", "Shared models", and "Datasets". The main content area displays a list of "Ready-to-use models": "Sentiment analysis", "Entities extraction", "Language detection", and "Personal information detection". Each model has a brief description and is powered by Amazon Comprehend. A message at the top right says: "New launch! SageMaker Canvas now provides 9 ready-to-use models & support for text and image classification custom models. Learn more".

Screenshot of the Amazon SageMaker Canvas interface showing the 'Datasets' page.

The sidebar includes:

- Amazon SageMaker Canvas
- Ready-to-use models
- My models
- Shared models
- Datasets (selected)
- Help
- Log out

The main area displays a list of datasets:

Name	Data type	Source	Cells (Columns x Rows)	Items	Created
canvas-sample-loans-part-2.csv	Tabular	S3	5,000 (5 x 1,000)		04/03,
canvas-sample-housing.csv	Tabular	S3	10,000 (10 x 1,000)		04/03,
canvas-sample-shipping-logs.csv	Tabular	S3	12,000 (12 x 1,000)		04/03,
canvas-sample-maintenance.csv	Tabular	S3	9,000 (9 x 1,000)		04/03,
canvas-sample-sales-forecasting.csv	Tabular	S3	5,000 (5 x 1,000)		04/03,
canvas-sample-loans-part-1.csv	Tabular	S3	19,000 (19 x 1,000)		04/03,
canvas-sample-product-descriptions.csv	Tabular	S3	600 (5 x 120)		04/03,
canvas-sample-diabetic-readmission.csv	Tabular	S3	16,000 (16 x 1,000)		04/03,

Screenshot of the 'Import' dialog in Amazon SageMaker Canvas.

The 'Data Source:' dropdown is set to "Local upload".

The main area shows a placeholder image of a person interacting with a large document, with the text "Upload files to import".

Buttons at the bottom right include "Cancel" and "Import data".

The system status bar at the bottom shows: 10°C Cloudy, Search, Microsoft Edge, Firefox, L, ENG IN, 2:38 PM, 2023-04-04.

The screenshot shows the 'Import' interface in Amazon SageMaker Canvas. The 'Data Source' is set to 'Amazon S3'. In the 'Choose files to import' section, 'winequality-white-train.csv' is selected. The interface includes a search bar and a list of files. At the bottom right are 'Cancel' and 'Import data' buttons.

Step 4: Imported the data, Created the Quick model by mentioning Quality variable as Target Variable.

The screenshot shows the 'Import preview' interface in Amazon SageMaker Canvas, displaying the first 100 rows of 'winequality-white-train.csv'. The columns shown are fixed acidity, volatile acidity, citric acid, residual sugar, chlorides, and free sulfur dio...'. A header row is present, and the 'Use first row as header' option is selected. The interface includes a 'Close preview' and 'Import data' button.

fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dio...
6.6	0.25	0.3	14.4	0.052	40.0
7.8	0.26	0.49	3.2	0.027	28.0
6.3	0.23	0.33	1.5	0.036	15.0
6.0	0.26	0.18	7.0	0.055	50.0
7.9	0.37	0.31	2.85	0.037	5.0

Screenshot of the Amazon SageMaker Canvas interface showing the 'Datasets' page.

The sidebar includes:

- Amazon SageMaker Canvas
- Ready-to-use models
- My models
- Shared models
- Datasets (selected)
- Help
- Log out

The main area displays a list of datasets:

Name	Data type	Source	Cells (Columns x Rows)	Items	Create
winequality-white-train.csv	Tabular	S3		04/	
canvas-sample-loans-part-2.csv	Tabular	S3	5,000 (5 x 1,000)	04/	
canvas-sample-housing.csv	Tabular	S3	10,000 (10 x 1,000)	04/	
canvas-sample-shipping-logs.csv	Tabular	S3	12,000 (12 x 1,000)	04/	
canvas-sample-maintenance.csv	Tabular	S3	9,000 (9 x 1,000)	04/	
canvas-sample-sales-forecasting.csv	Tabular	S3	5,000 (5 x 1,000)	04/	
canvas-sample-loans-part-1.csv	Tabular	S3	19,000 (19 x 1,000)	04/	
canvas-sample-product-descriptions.csv	Tabular	S3	600 (5 x 120)	04/	
canvas-sample-diabetic-readmission.csv	Tabular	S3	16,000 (16 x 1,000)	04/	

Toolbar buttons: Join data, Import, Create.

Screenshot of the Amazon SageMaker Canvas interface showing the 'Create new model' dialog.

The sidebar includes:

- Amazon SageMaker Canvas
- Ready-to-use models
- My models
- Shared models
- Datasets (selected)
- Help
- Log out

The dialog shows:

Create new model

Model name: nr-wine-canvas

Problem type:

Select the problem type you want the model to solve.

Predictive analysis

Build models using tabular datasets to predict single or multiple categories as well as regression and time-series forecast problems.

Image analysis

Build models using image datasets to predict single or multiple categories for image classification problems.

Text analysis

Build models using tabular datasets to predict single or multiple categories for text classification problems.

Buttons: Cancel, Create.

The screenshot shows the SageMaker Canvas interface with the 'Build' tab selected. On the left, there's a sidebar with various icons. The main area starts with a section titled 'Select a column to predict' where 'quality' is chosen as the target column. Below this is a histogram titled 'Value distribution' showing the distribution of 'quality' values from 3.00 to 6.70. To the right, under 'Model type', it says 'SageMaker Canvas automatically recommends the appropriate model type for your analysis.' It identifies 'quality' as a '3+ category prediction'. A 'Quick build' button is present. At the bottom, there's a table for 'winequality-white-train.csv' with columns for Column name, Data type, Missing, Mismatched, Unique, Mean / Mode, and Correlation to target. The table shows data for 'residual sugar', 'quality' (Target), and 'pH'. The status bar at the bottom indicates the file is 3.4k rows and 12 columns.

The screenshot shows the SageMaker Canvas interface with the 'Analyze' tab selected. The top navigation bar includes 'Select', 'Build', 'Analyze', and 'Predict'. The main area features a 'Model overview' section with a progress bar indicating the model is being created. Below this, there's a progress indicator showing 'Generating column impact'. On the left, there's a sidebar with icons. At the bottom, there's a table for 'winequality-white-train.csv' with columns for Column name, Data type, Missing, Mismatched, Unique, Mean / Mode, and Correlation to target. The table shows data for 'residual sugar', 'quality' (Target), and 'pH'. The status bar at the bottom indicates the file is 3.428 rows and 12 columns.

Step 5: The model gave 68.169% of accuracy in predicting the quality. After which prediction was done on the test dataset.

Screenshot of the SageMaker Canvas interface showing the Analyze tab for the "nr-wine-canvas" model.

Model status: 68.169%
The model predicts the correct Quality 68.169% of the time. ⓘ

Column impact:

Column	Impact (%)
alcohol	19.39%
volatile acidity	13.166%
density	10.093%

Impact of alcohol on prediction of quality: A scatter plot showing the relationship between alcohol content (X-axis) and wine quality (Y-axis). The X-axis ranges from 0.02 to 1.02, and the Y-axis ranges from -1.35 to 1.02. The plot shows a positive correlation, with most data points clustered between 0.5 and 1.0 alcohol content and 0.5 and 1.0 quality.

Scoring: Predict

Screenshot of the SageMaker Canvas interface showing the Analyze tab for the "nr-wine-canvas" model.

Model status: 68.169%
The model predicts the correct Quality 68.169% of the time. ⓘ

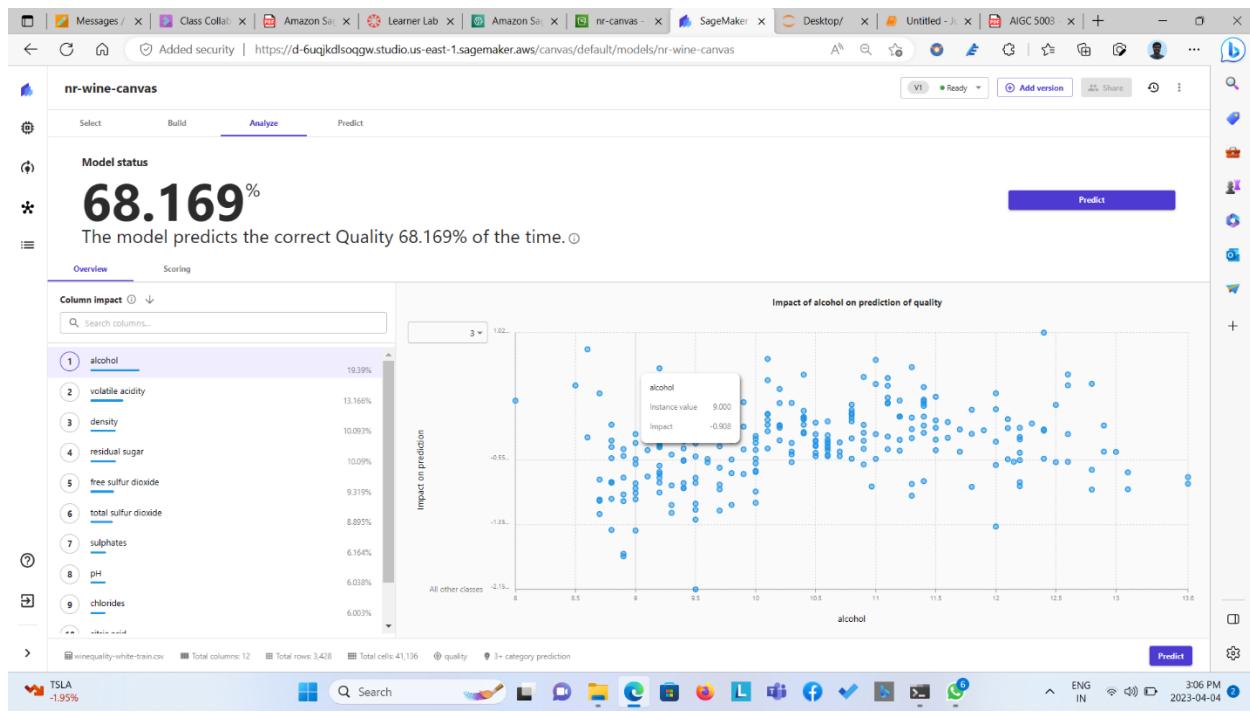
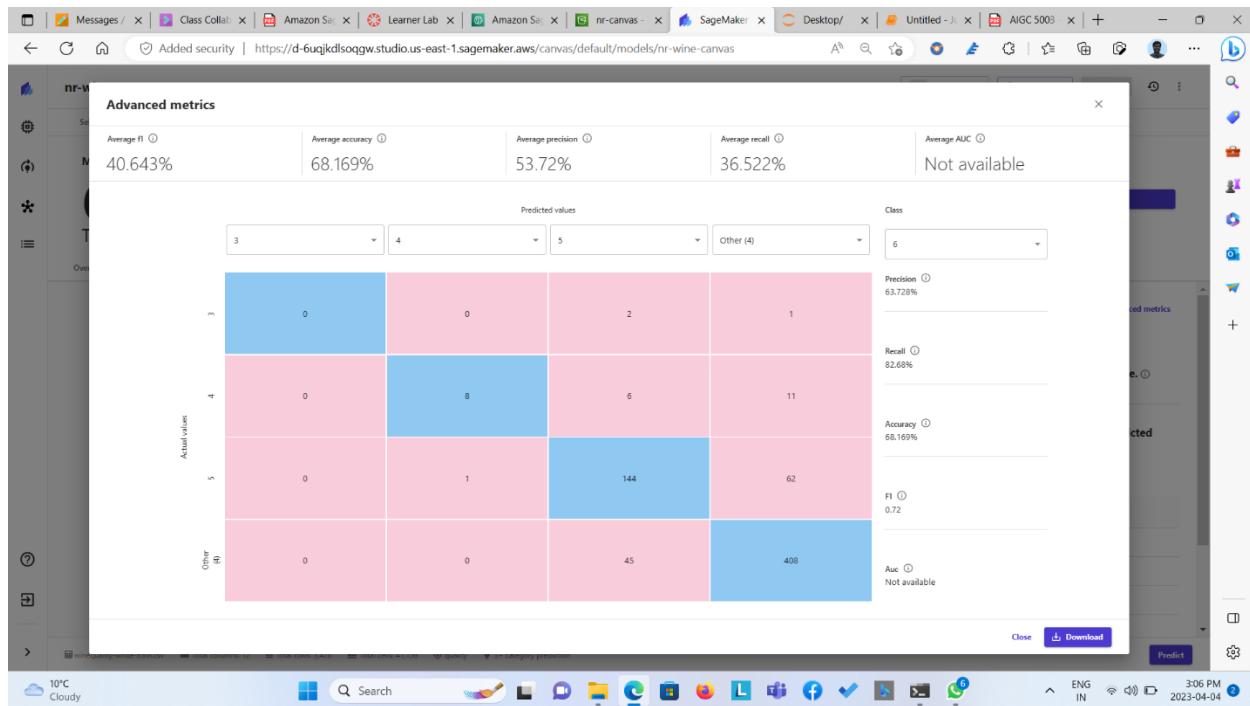
Predicted vs. Actual: A waterfall chart comparing predicted vs. actual values across different categories. The chart shows a large number of predictions for category 6, with many actual values also being 6. Other categories like 5, 7, 4, 8, and 9 are also represented.

Model accuracy insights: If the model predicts 6, it is correct 63.728% of the time. ⓘ
For the values that are 6 in the dataset, the model predicted 82.68% of them to be 6. ⓘ

Individual labels:

Class	Precision	Recall
3	0%	0%
4	88.88%	32%
5	73.09%	69.56%
6	63.72%	82.68%

Scoring: Predict



Screenshot of a web browser showing the 'Import' dialog for Amazon S3. The 'Data Source' is set to 'Amazon S3'. The 'Choose files to import' section shows two CSV files: 'winequality-white-train.csv' and 'winequality-white-test.csv', with 'winequality-white-test.csv' selected. The browser's address bar shows the URL: https://d-6uqjkdlsogw.studio.us-east-1.sagemaker.aws/canvas/default/models/nr-wine-canvas

Screenshot of a web browser showing the 'Import' dialog for Amazon S3. The 'Data Source' is set to 'Amazon S3'. The 'Choose files to import' section shows two CSV files: 'winequality-white-train.csv' and 'winequality-white-test.csv', with 'winequality-white-test.csv' selected. The browser's address bar shows the URL: https://d-6uqjkdlsogw.studio.us-east-1.sagemaker.aws/canvas/default/models/nr-wine-canvas

The 'Import preview' section displays the first 100 rows of the 'winequality-white-test.csv' file. The columns are: fixed acidity, volatile acidity, citric acid, residual sugar, chlorides, free sulfur dioxide, total sulfur dioxide, density, and pH. The data rows are:

fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dio...	total sulfur di...	density	pH
6.0	0.29	0.41	10.8	0.048	55.0	149.0	0.9937	3.09
5.4	0.53	0.16	2.7	0.036	34.0	128.0	0.9856	3.2
7.1	0.25	0.39	2.1	0.036	30.0	124.0	0.9908	3.28
7.3	0.28	0.35	1.6	0.054	31.0	148.0	0.99178	3.18
6.5	0.32	0.34	5.7	0.044	27.0	91.0	0.99184	3.28

Select dataset for predictions

To make predictions on a dataset, select it or import it. The dataset that you select must have the same number of feature columns as the training dataset. [?](#)

+ Import

Search datasets in Canvas

Name	Columns	Rows	Cells	Created	Status
winequality-white-test.csv	12	1,470	17,640	04/04/2023 3:07 PM	Ready
winequality-white-train.csv	12	3,428	41,136	04/04/2023 2:43 PM	Ready
canvas-sample-loans-part-2.csv	5	1,000	5,000	04/03/2023 11:04 AM	Incompatible ?
canvas-sample-housing.csv	10	1,000	10,000	04/03/2023 11:04 AM	Incompatible ?
canvas-sample-shipping-logs.csv	12	1,000	12,000	04/03/2023 11:04 AM	Incompatible ?
canvas-sample-maintenance.csv	9	1,000	9,000	04/03/2023 11:04 AM	Incompatible ?
canvas-sample-sales-forecasting.csv	5	1,000	5,000	04/03/2023 11:04 AM	Incompatible ?
canvas-sample-loans-part-1.csv	19	1,000	19,000	04/03/2023 11:04 AM	Incompatible ?
canvas-sample-product-descriptions.csv	5	120	600	04/03/2023 11:04 AM	Incompatible ?
canvas-sample-diabetic-readmission.csv	18	1,000	16,000	04/03/2023 11:04 AM	Incompatible ?

Close Generate predictions

TSLA -1.95%

Search Analyze Predict

Select Build Analyze Predict

Add version Share

nr-wine-canvas

Predict target values

Batch prediction Single prediction

Generate predictions for an entire dataset.

Select dataset

Predictions

Dataset Rows Created Status

batchInfer-nr-wine-canvas-winequality-white-test.csv	1,470	04/04/2023 3:07 PM	Ready
--	-------	--------------------	-------

batchInfer-nr-wine-canvas-winequality-white-test.csv 160035243 predictions ready View X

TSLA -1.95% 3:08 PM 2023-04-04

nr-wine-canvas

batchinfer-nr-wine-canvas-winequality-white-test.csv-1680635243

Prediction (quality)	Probability	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	
7	66.0%	6.0	0.29	0.41	10.8	0.048	55.0	
8	70.2%	5.4	0.53	0.16	2.7	0.036	34.0	
7	44.7%	7.1	0.25	0.39	2.1	0.036	30.0	
5	60.1%	7.3	0.28	0.35	1.6	0.054	31.0	
7	56.3%	6.5	0.32	0.34	5.7	0.044	27.0	
6	83.2%	6.3	0.3	0.91	8.2	0.034	50.0	
batchinfer-nr-wine-canvas-winequality-white-test.csv-1680635243	5	72.6%	7.0	0.36	0.14	11.6	0.048	35.0
5	59.4%	7.6	0.26	0.36	1.6	0.032	6.0	
6	79.7%	8.3	0.18	0.3	1.1	0.033	20.0	
5	86.7%	8.7	0.31	0.73	14.35	0.044	27.0	
7	68.7%	6.4	0.14	0.31	1.2	0.034	53.0	
5	55.8%	6.7	0.54	0.28	5.4	0.06	21.0	
7	48.9%	6.3	0.12	0.36	2.1	0.044	47.0	
5	58.8%	7.6	0.28	0.39	1.9	0.052	23.0	

Download CSV

batchinfer-nr-wine-canvas-winequality-white-test.csv-1680635243 predictions ready View

GBP/CAD +0.85%

Search

3:09 PM 2023-04-04

Step 6: New version was created on which same above mentioned process is been carried but this time with Standard model. Here three least significant column is been dropped which resulted into 67.151% of accuracy.

nr-wine-canvas

Select dataset

Search datasets in Canvas

Name	Columns	Rows	Cells	Created	Status
winequality-white-test.csv	12	1,470	17,640	04/04/2023 3:07 PM	Ready
winequality-white-train.csv	12	3,428	41,136	04/04/2023 2:43 PM	Ready
canvas-sample-loans-part-2.csv	5	1,000	5,000	04/03/2023 11:04 AM	Incompatible
canvas-sample-housing.csv	10	1,000	10,000	04/03/2023 11:04 AM	Incompatible
canvas-sample-shipping-logs.csv	12	1,000	12,000	04/03/2023 11:04 AM	Incompatible
canvas-sample-maintenance.csv	9	1,000	9,000	04/03/2023 11:04 AM	Incompatible
canvas-sample-sales-forecasting.csv	5	1,000	5,000	04/03/2023 11:04 AM	Incompatible
canvas-sample-loans-part-1.csv	19	1,000	19,000	04/03/2023 11:04 AM	Incompatible
canvas-sample-product-descriptions.csv	5	120	600	04/03/2023 11:04 AM	Incompatible
canvas-sample-diabetic-readmission.csv	16	1,000	16,000	04/03/2023 11:04 AM	Incompatible

Select dataset

10°C Cloudy

Search

3:13 PM 2023-04-04

Screenshot of the SageMaker Canvas interface showing the 'Select' tab. The 'Select dataset' section allows importing or choosing datasets from the local file system or AWS S3. A list of available datasets is shown, including 'winequality-white-test.csv', 'winequality-white-train.csv', and several sample datasets like 'canvas-sample-loans-part-2.csv'. The status column indicates if the dataset is ready or incompatible.

Name	Columns	Rows	Cells	Created	Status
winequality-white-test.csv	12	1,470	17,640	04/04/2023 3:07 PM	Ready
winequality-white-train.csv	12	3,428	41,136	04/04/2023 2:43 PM	Ready
canvas-sample-loans-part-2.csv	5	1,000	5,000	04/03/2023 11:04 AM	Incompatible
canvas-sample-housing.csv	10	1,000	10,000	04/03/2023 11:04 AM	Incompatible
canvas-sample-shipping-logs.csv	12	1,000	12,000	04/03/2023 11:04 AM	Incompatible
canvas-sample-maintenance.csv	9	1,000	9,000	04/03/2023 11:04 AM	Incompatible
canvas-sample-sales-forecasting.csv	5	1,000	5,000	04/03/2023 11:04 AM	Incompatible
canvas-sample-loans-part-1.csv	19	1,000	19,000	04/03/2023 11:04 AM	Incompatible
canvas-sample-product-descriptions.csv	5	120	600	04/03/2023 11:04 AM	Incompatible
canvas-sample-diabetic-readmission.csv	16	1,000	16,000	04/03/2023 11:04 AM	Incompatible

Screenshot of the SageMaker Canvas interface showing the 'Build' tab. The 'Validate your data' step is in progress. The 'Select a column to predict' section shows the target column 'quality' has been selected. The 'Model type' section recommends a '3+ category prediction' model. The 'Standard build' panel includes a 'Preview model' button. The main workspace displays the 'winequality-white-train.csv' dataset with 3,428 rows. A 'Data visualizer' panel shows a histogram of the 'quality' distribution. A 'Model recipe' panel lists three steps: 'Drop column citric acid', 'Drop column free sulfur dioxide', and 'Drop column sulphates'.

Column name	Data type	Missing	Mismatched	Unique	Mean / Mode	Correlation to target
volatile acidity	Numeric	0.00% (0)	0.00% (0)	115	0.28	-0.204
total sulfur dioxide	Numeric	0.00% (0)	0.00% (0)	240	113	-0.162
sulphates	Numeric	0.00% (0)	0.00% (0)	73	0.5	0.063
residual sugar	Numeric	0.00% (0)	0.00% (0)	286	1.4	-0.095
quality	Numeric	0.00% (0)	0.00% (0)	7	6	--
pH	Numeric	0.00% (0)	0.00% (0)	98	3.14	0.108
free sulfur dioxide	Numeric	0.00% (0)	0.00% (0)	122	29	0.025
fixed acidity	Numeric	0.00% (0)	0.00% (0)	65	6.6	-0.12
density	Numeric	0.00% (0)	0.00% (0)	811	0.99	-0.3
citric acid	Numeric	0.00% (0)	0.00% (0)	82	0.3	-0.021
chlorides	Numeric	0.00% (0)	0.00% (0)	142	0.04	-0.192

Screenshot of the AWS SageMaker Canvas interface showing the 'Model overview' page. The model is currently being created, with a standard build type and an expected build time of 45 minutes. A progress bar indicates the build is at 2 seconds. The interface includes a sidebar with various icons and a bottom navigation bar.

Screenshot of the AWS SageMaker Canvas interface showing the 'Model status' page. The model's accuracy is displayed as 67.151%. A chart titled 'Impact of alcohol on prediction of quality' shows the relationship between alcohol content and wine quality. The left panel displays a list of column impacts for the features: alcohol (24.53%), volatile acidity (17.569%), residual sugar (12.965%), density (12.423%), total sulfur dioxide (8.909%), pH (8.816%), fixed acidity (7.454%), and chlorides (7.335%). The bottom navigation bar shows the file 'winequality-white-train.csv' and the date '2023-04-04'.

nr-wine-canvas

Select Build Analyze Predict

Model status

67.151%
The model predicts the correct Quality 67.151% of the time.

Predict

Overview Scoring

Predicted vs. Actual

All predictions Predicted Actual

Total 688

Model accuracy insights Advanced metrics

Most frequent label

If the model predicts 6, it is correct 62.85% of the time.

For the values that are 6 in the dataset, the model predicted 80.719% of them to be 6.

Individual labels

Class	Precision	Recall
3	0%	0%
4	72.727%	32%
5	70.918%	67.15%
6	62.85%	80.719%

winequality-white-train.csv Total columns: 9 Total rows: 3,428 Total cells: 30,852 @quality 3+ category prediction Predict

TSLA -1.80% Search ENG IN 3:48 PM 2023-04-04

nr-wine-canvas

Advanced metrics

Average f1	Average accuracy	Average precision	Average recall	Average AUC
40.308%	67.151%	52.679%	36.373%	Not available

Predicted values

Predicted values					Class
					6
3	0	0	1	2	Precision: 62.85%
4	0	8	7	10	Recall: 80.719%
5	0	2	139	66	Accuracy: 67.151%
Other	0	1	49	400	F1: 0.707

Actual values

Actual values					Class
					6
3	0	0	1	2	Precision: 62.85%
4	0	8	7	10	Recall: 80.719%
5	0	2	139	66	Accuracy: 67.151%
Other	0	1	49	400	F1: 0.707

Precision: 62.85%
Recall: 80.719%
Accuracy: 67.151%
F1: 0.707
Auc: Not available

Close Download Predict

10°C Cloudy Search ENG IN 3:49 PM 2023-04-04

Select dataset for predictions

To make predictions on a dataset, select it or import it. The dataset that you select must have the same number of feature columns as the training dataset. [?](#)

+ Import

Search datasets in Canvas

Name	Columns	Rows	Cells	Created	Status
winequality-white-test.csv	12	1,470	17,640	04/04/2023 3:07 PM	Ready
winequality-white-train.csv	12	3,428	41,136	04/04/2023 2:43 PM	Ready
canvas-sample-loans-part-2.csv	5	1,000	5,000	04/03/2023 11:04 AM	Incompatible ?
canvas-sample-housing.csv	10	1,000	10,000	04/03/2023 11:04 AM	Incompatible ?
canvas-sample-shipping-logs.csv	12	1,000	12,000	04/03/2023 11:04 AM	Incompatible ?
canvas-sample-maintenance.csv	9	1,000	9,000	04/03/2023 11:04 AM	Incompatible ?
canvas-sample-sales-forecasting.csv	5	1,000	5,000	04/03/2023 11:04 AM	Incompatible ?
canvas-sample-loans-part-1.csv	19	1,000	19,000	04/03/2023 11:04 AM	Incompatible ?
canvas-sample-product-descriptions.csv	5	120	600	04/03/2023 11:04 AM	Incompatible ?
canvas-sample-diabetic-readmission.csv	18	1,000	16,000	04/03/2023 11:04 AM	Incompatible ?

Close Generate predictions

GBPCAD +0.77%

Search

nr-wine-canvas

Select Build Analyze Predict

V2 • Ready Add version Share

Predict target values

Batch prediction Single prediction

Generate predictions for an entire dataset.

Select dataset

Predictions

Dataset Rows Created Status

batchinfer-nr-wine-canvas-winequality-white-test.csv	1,470	04/04/2023 3:50 PM	Ready
--	-------	--------------------	-------

batchinfer-nr-wine-canvas-winequality-white-test.csv 1600637843 predictions ready View X

10°C Cloudy

Search

3:50 PM 2023-04-04

The screenshot shows the SageMaker Studio interface with the 'nr-wine-canvas' project selected. In the center, there is a table titled 'batchInfer-nr-wine-canvas-winequality-white-test.csv-1680637843' containing wine quality prediction data. The columns include 'Prediction (quality)', 'Probability', 'fixed acidity', 'volatile acidity', 'citric acid', 'residual sugar', 'chlorides', and 'free sulfur dioxide'. The table has 14 rows of data. A 'Download CSV' button is located at the bottom right of the table. On the left sidebar, there are sections for 'Predict target values' (Batch prediction, Single prediction), 'Dataset' (batchInfer-nr-wine-canvas-winequality-white-test.csv-1680637843), and 'Predictions'. The bottom status bar shows 'Eglinton Ave W Construction' and the date '2023-04-04'.

Step 7: The standard model is been shared with the other user so that the shared user can deploy the shared model from sagemaker studio so that he/she can carry out other process with this pretrained model.

The screenshot shows the SageMaker Studio interface with the 'nr-wine-canvas' project selected. The 'Predict' tab is active. A 'Share Model' dialog box is open in the foreground. It displays a 'Choose a model version to share' dropdown set to 'V2 Ready' (Created Apr 4, 2023 3:13 PM). Below it is a 'SageMaker Studio users' section with a dropdown menu showing 'user-canvas' selected. There is also an 'Add a note' field with the placeholder 'Request feedback' and a 'Share' button at the bottom. The background shows the same dataset and prediction table as the previous screenshot. The bottom status bar shows 'Eglinton Ave W Construction' and the date '2023-04-04'.

The screenshot shows the AWS SageMaker Canvas interface. In the center, a modal dialog box titled "Share Model" is displayed, asking if the user still wants to share the model because they can only share one version per model and can't cancel sharing. The dialog includes "Back" and "Share" buttons. The background shows the "Predict target values" section with a "Batch prediction" tab selected, and a dataset named "batchInfer-nr-wine-canvas-winequality-white-test.csv" with 1,470 rows.

The screenshot shows the AWS SageMaker Studio interface. On the left, a sidebar menu is open under the "Models" section, showing options like "Model registry", "Shared models", "Inference compiler", and "Edge packager". The main area displays the "Shared models and notebooks" page, which lists a single item: "nr-wine-canvas" (MultiClassClassifier). It shows that the model was last updated 6 minutes ago and is shared with 0 Canvas users. A "View model" button is present. A "SageMaker Feedback" overlay is visible at the bottom right, asking for experience rating (Terrible, Bad, Okay, Good, Excellent) and a survey about receiving official Jupyter news. The status bar at the bottom indicates it's 4:01 PM on April 4, 2023.

Added security | https://d-fuqjkdlsoqw.studio.us-east-1.sagemaker.aws/jupyter/default/lab

File Edit View Run Kernel Go Tabs Settings Help

Home Shared models and notebooks Model Details

To successfully share a new model with Canvas, your model should contain the same target column from the original model. Your changes won't be saved if you close the tab. To restart updating the model, you can find the shared Canvas models in the Shared models and notebooks page.

NR-WINE-CANVAS 1680638103 from Canvas

Canvas model details

Full dataset: winequality-white-train.csv

Problem type: Multiclass classification

Target column: quality

Model score: Accuracy@1

Autopilot: CANVAS844601-AWS-AUTO-ML-JOB COMPLETED

Job Name: Canvas844601-aws-auto-ml-job

Module: WeightedEnsemble-1.0-FULL-109455157742Canvas844601-aws-trial

Status: Completed

Share feedback Update model

Share model Deploy model Stop training job

Explainability Performance Artifacts Network

Model explainability

Feature Importance

Explaining your model's predictions

Amazon SageMaker Studio helps you understand your machine learning model by portraying the importance of its features in terms of SHAP values. We plot the aggregated SHAP value for each feature across all instances of the dataset.

Your analysis includes multiple predicted columns. Select a predicted column to see feature importance results:

Resource

Would you like to receive official Jupyter news? Please read the privacy policy Yes No

Model Details