

QwikLab: Intro to Amazon Machine Learning

Task 1: Upload Training Data

Create bucket

Bucket name	Access	Region	Date created
data950607	Not public *	US East (N. Virginia)	Nov 11, 2018 11:49:07 PM GMT-0500

Upload data files

Amazon S3 > data950607

Overview

Properties

Permissions

Management

Upload

Create folder

Download

Actions

US East (N. Virginia)

Viewing 1 to 1

<input type="checkbox"/> Name	Last modified	Size	Storage class
<input type="checkbox"/> restaurants.data	Nov 11, 2018 11:49:30 PM GMT-0500	822.7 KB	Standard

Viewing 1 to 1

Task 2: Create a Datasource

Configure ML

1. Input data 2. Schema 3. Target 4. How to 5. **Review**

Review

Review and make any changes, and then click Finish.

Input data

Edit

Datasource name Restaurants.data
S3 location s3://data950607/restaurants.data
Data format CSV
Number of files 1
Total size 822.7 KB

Schema

Edit

Schema source Auto generated
Data types 6 Categorical Attributes

Target

Edit

Target Var6 (Multiclass Classification)

Row identifier (optional)

Edit

Record ID None

Tags

Amazon ML copies a maximum of 10 tags from parent objects. Edit the list to keep the tags you need.

No tags

Cancel

Previous

Continue

Task 3: Create an ML Model from the Datasource

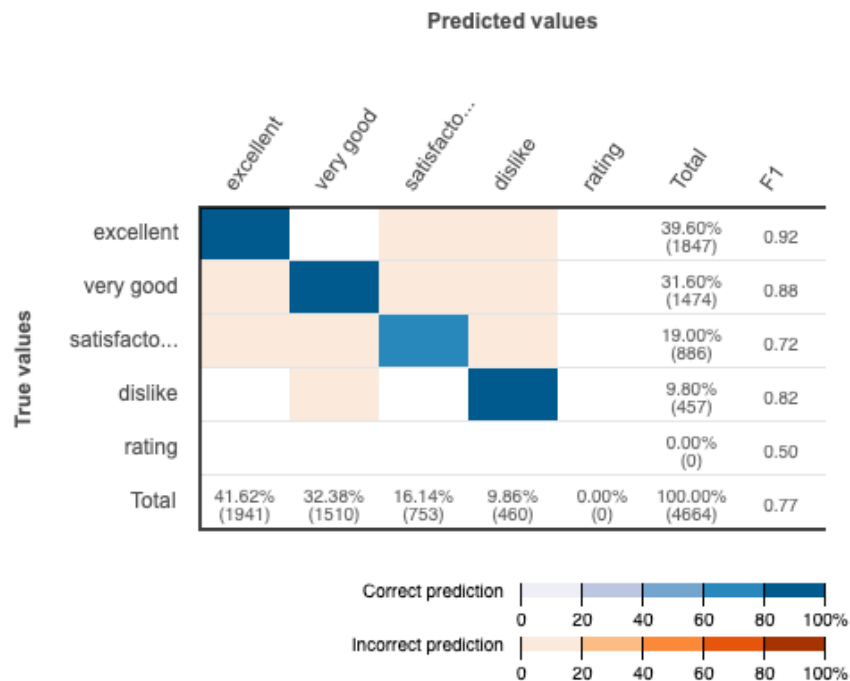
	Name	ID	Status	Real time predictions	Creation time	Completion time	Datasource ID
<input type="checkbox"/>	ML model: Restaurants.data	ml-xvqZHeDTiPh	Completed	Not enabled	Nov 11, 2018 11:56:59 PM	3 mins.	ds-AWnUfQoBE7S
ML model name ML model: Restaurants.data							
ML model ID		ml-xvqZHeDTiPh		Input schema		View input schema	
ML model type		Multiclass classification		Target attribute		_Target_	
Creation time		Nov 11, 2018 11:56:59 PM		Target type		CATEGORICAL	
Status		Completed		Number of attributes		6	
Datasource ID		ds-AWnUfQoBE7S		Evaluations created		1	
Log		Download log		Latest evaluation result		Not available	
				Batch predictions created		0	
Tags Add or edit tags							
No tags							

Task 4: Evaluate an ML Model

ML model performance

This chart shows the F1 scores and prediction distributions of your ML model. [Learn more.](#)

[Download the complete matrix](#)



Task 5: Generate Predictions From Your ML Model

Real-time prediction

Try real-time predictions

You submitted 5 out of 5 data values for this prediction.

Try generating real-time predictions for free using the web browser on this page. To request a real-time prediction, complete the following form or provide a single data record in CSV format. To provide a data record, choose the **Paste a record** button.

Q *Attribute name*

Items per page: 10 << < 1 - 6 of 6 > >>

	Name	Type	Value
1	Var1	Categorical	<input type="text" value="under_19"/>
2	Var2	Categorical	<input type="text" value="male"/>
3	Var3	Categorical	<input type="text" value="under_20"/>
4	Var4	Categorical	<input type="text" value="over_50"/>
5	Var5	Categorical	<input type="text" value="Continental"/>
6	_Target_	Categorical	Target

<< < 1 - 6 of 6 > >>

Clear data

Create prediction

Prediction results

Target name

Target

ML model type

CATEGORICAL

Predicted class

dislike

```
{
  "Prediction": {
    "details": {
      "Algorithm": "SGD",
      "PredictiveModelType": "MULTICLASS"
    },
    "predictedLabel": "dislike",
    "predictedScores": {
      "dislike": 0.8338549733161926,
      "excellent": 0.000011927893865504302,
      "rating": 0.000017141746866400354,
      "satisfactory": 0.0003674528270494193,
      "very good": 0.16574852168560028
    }
  }
}
```