



DataRobot Integration Package

Readme

Version 1.0

06/30/2020

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1. Introduction

This document contains all essential information for the user to make full use of this A2019 DataRobot Integration Package. It includes a description of the functions and capabilities and step-by-step procedures for setup & configuration.

1.1 Overview

This package enables integration of A2019 RPA Bots with DataRobot. The package provides actions to authenticate with a DataRobot server, retrieve information about deployed prediction models available to that user, and generate prediction results based on an uploaded dataset.

A typical use of this package would involve first authenticating with username/PW or API Key, then using the action to retrieve deployment details (URL, datarobot-key and model IDs) and finally using those returned deployment details as inputs to the “Get Predictions” action along with a CSV/JSON dataset containing elements on which a prediction would be generated.

1.2 Use cases

The key use cases include:

- Intelligent ticket classification
- Fraud Detection
- Anti-Money Laundering
- Automated Approvals
- Predict Loan Defaults
- Intelligent Call Routing
- Demand/Sales Forecasting

2. Requirements & Prerequisites

2.1 System Requirements

Enterprise A2019 (Cloud deployed) and Community Edition device requirements.

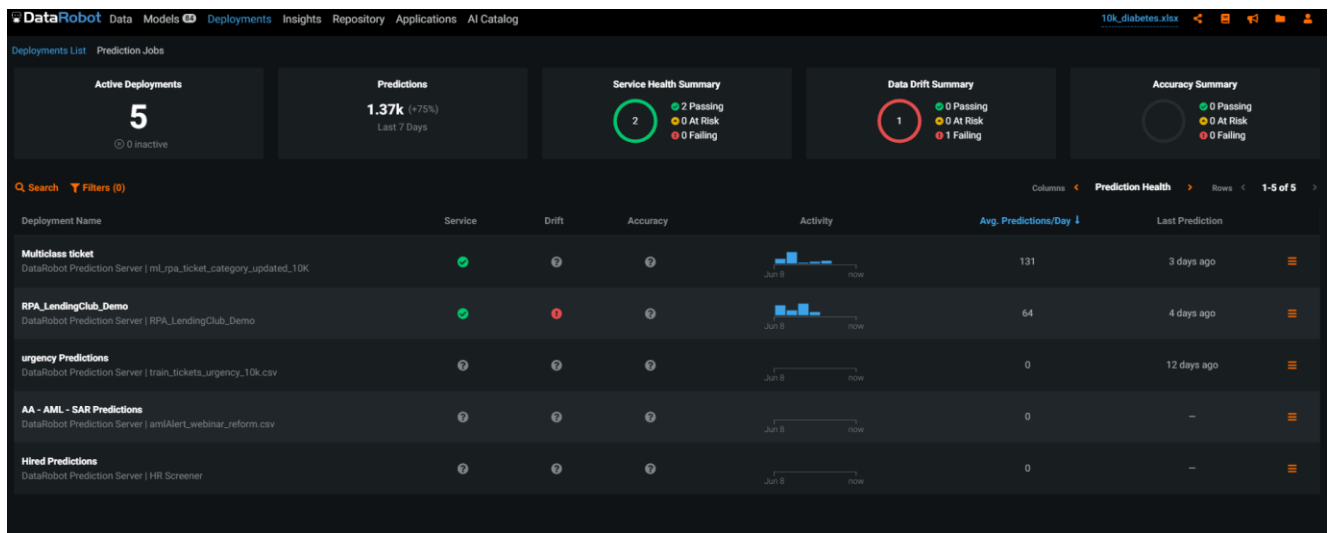
Review the machine hardware specifications, operating system versions, and browser types supported by Automation Anywhere Enterprise for creating and running bots and command packages as an Enterprise A2019 (Cloud deployed) or Community Edition user on your local machine.

2.2 Prerequisites

User must have access to DataRobot Enterprise AI platform. Models used for obtaining predictions must be available to the specific username/PW or API Key input during authentication.

The current version of the package supports Multiclass and Binary model types.

Example list of Models Deployed in DataRobot:



3. Getting Started

3.1 Quick Start

3.1.1 Setup

Contact DataRobot to obtain access to the Enterprise AI platform.

3.1.2 Configuration and Use

This package contains the following actions:

DataRobot



End Session



Get Deployments



Get Predictions



Start Session

Action	Description	Parameters								
Start Session	Starts Session and authenticates with DataRobot Server	Inputs <table><tr><td>Username</td></tr><tr><td>Password</td></tr><tr><td>API Key</td></tr></table> Note: Either API Key or combination of Username and PW is required	Username	Password	API Key					
Username										
Password										
API Key										
Get Deployments	Returns information on deployed models available to the authenticated user. Information is stored in a dictionary variable under specific keys. If the user has access to multiple models, each model will be listed with its model name as the key and the Deployment ID as the associated value.	Dictionary Output <table><tr><th>Key</th><th>Value</th></tr><tr><td>URL</td><td>Server URL to use in Get Predictions action</td></tr><tr><td>datarobot-key</td><td>The DataRobot Key specific to the models deployed for that user</td></tr><tr><td>[model name]</td><td>Deployment ID for model name</td></tr></table>	Key	Value	URL	Server URL to use in Get Predictions action	datarobot-key	The DataRobot Key specific to the models deployed for that user	[model name]	Deployment ID for model name
Key	Value									
URL	Server URL to use in Get Predictions action									
datarobot-key	The DataRobot Key specific to the models deployed for that user									
[model name]	Deployment ID for model name									
Get Predictions	Returns prediction labels, values, and results in a table variable. The key-value pairs of the Dictionary output from Get Deployments can be used as inputs to ensure the appropriate URL, Datarobot-key and Deployment ID are used.	Inputs <table><tr><td>URL (Datarobot server URL)</td></tr><tr><td>DataRobot-Key</td></tr><tr><td>Deployment ID</td></tr><tr><td>Selection: Multiclass or Binary</td></tr></table>	URL (Datarobot server URL)	DataRobot-Key	Deployment ID	Selection: Multiclass or Binary				
URL (Datarobot server URL)										
DataRobot-Key										
Deployment ID										
Selection: Multiclass or Binary										

		Dataset (CSV or JSON) Output: This action outputs the prediction results in a table variable for easy manipulation and use in subsequent actions. Multiclass: Output will include row ID, prediction values for each class and an overall prediction for the associated uploaded row of data. Binary: Output includes row ID, prediction values, overall prediction and prediction explanations for each row of data.
End Session	Ends Session for DataRobot package	

Example Use:

The dictionary variable “DR” is used to input the values for URL, DataRobot Key and Deployment ID using the associated keys. “RPA_LendingClub_Demo” is the name of the deployed Binary classification model on the DataRobot server to be used for the selected dataset.

Flow List Dual

```

graph TD
    Start([Start]) --> StartSession[DataRobot: Start Session  
Start Session]
    StartSession --> GetDeployments[DataRobot: Get Deployments  
Get Deployments]
    GetDeployments --> GetPredictions[DataRobot: Get Predictions  
Get Predictions for Data Set]
    GetPredictions --> WriteToFile[Data Table: Write to file  
C:\Users\james.dickson\Doc...]
    WriteToFile --> EndSession[DataRobot: End Session  
session end "Default"]
    
```

DataRobot: Get Predictions

Returns prediction outputs in a table variable for a provided data set

Session name
Default

URL
\$DR{URL}\$

DataRobot Key
\$DR{datarobot-key}\$

Deployment ID
\$DR{RPA_LendingClub_Demo}\$

Select Prediction Type
Binary

Data Set File (.csv or .json)
Control Room file Desktop file Variable

C:\Users\james.dickson\Documents\DataRobot\Binary Classifica

Assign output to a table variable
Table - Table

4. Support & FAQs

4.1 Support

Free bots are not officially supported. You can get access to Community Support through the following channels:

- You can get access to Community Support, connecting with other Automation Anywhere customers and developers on [APeople](#) – the [Bot Building Forum](#), the [Bot Store Support Forum](#), or the [Developers Everywhere Group](#).
- Automation Anywhere also provides a [Product Documentation portal](#) which can be accessed for more information about our products and guidance on [Enterprise A2019](#).

4.2 FAQs

For questions relating to Enterprise A2019: See the [Enterprise A2019 FAQs](#).

Appendix A: Record of Changes

No.	Version Number	Date of Change	Author	Notes
<i>1</i>	<i>1.0.0</i>	<i>06/15/2020</i>	<i>J Dickson</i>	

Appendix B: References

No.	Topic	Reference Link
1	Overview of Enterprise A2019	Click here
2	Guidance: Building basic A2019 bots	Click here
3	Guidance: Building A2019 action packages	Click here
4	APeople Community Forum	Click here
5	Automation Anywhere University	Click here