Deploying an AutoAI-generated Pipeline

Summary

In this lab you will:

- Deploy a model using Watson Machine Learning

Refer to the demo videos from this lesson for a step-by-step demonstration of how to complete the lab.

Instructions

1. Deploy one of the pipelines for the banknote_auth experiment
    a. Click the Save As button at the top right and select Model
    b. Give a Description if desired and click Save
    c. You should get a notification on the top right that the model has been saved and an option to View in project
    d. The Overview tab will give a Summary of your model and Input Schema. Select the Deployments tab.
    e. Click Add Deployment + at top right.
    f. Give a Name. Notice that the model will be deployed as a Web service. Click Save.
    g. Notice that the status is Initializing. Once the status changes to Ready, click the ellipsis under Actions and select View.
    h. Select the Test tab.
    i. Enter the following values into the form and click Predict
        i. var = 0.434
        ii. skew = 1.922
        iii. curtosis = 1.398
        iv. entropy = -1.192
        (There isn't any new data to test the model on, but these are the mean values from each feature.)
    j. Observe the prediction class and associated probabilities

2. Optional: Deploy a pipeline for the parkinsons_updrs experiment using the above instructions
    a. When testing the deployed model, select Provide input as JSON and use the following JSON data with the mean values from each feature. There is a .json file containing the data available to download with this lab.
        i. The values have been rounded to the nearest integer where appropriate.
        ii. Note that the columns subject# and motor_UPDRS are still inputs to the model, even though they were not used for prediction.

```
{"input_data":[{
       "fields":
["subject#","age","sex","test_time","motor_UPDRS",
"Jitter(%)","Jitter(Abs)","Jitter:RAP","Jitter:PPQ5","J
```

```
itter:DDP","Shimmer", "Shimmer(dB)", "Shimmer:APQ3",
"Shimmer:APQ5", "Shimmer:APQ11", "Shimmer:DDA", "NHR",
"HNR", "RPDE", "DFA", "PPE"],
       "values": [[ 18, 64, 0, 93.243, 20.478, 0.006,
0, 0.003, 0.003, 0.009, 0.034, 0.314, 0.017, 0.021,
0.028, 0.052, 0.031, 21.693, 0.54, 0.658, 0.0219 ]]
}]}
```

3. Optional: If you have time, explore the capabilities of the LALE library
    a. https://github.com/IBM/lale