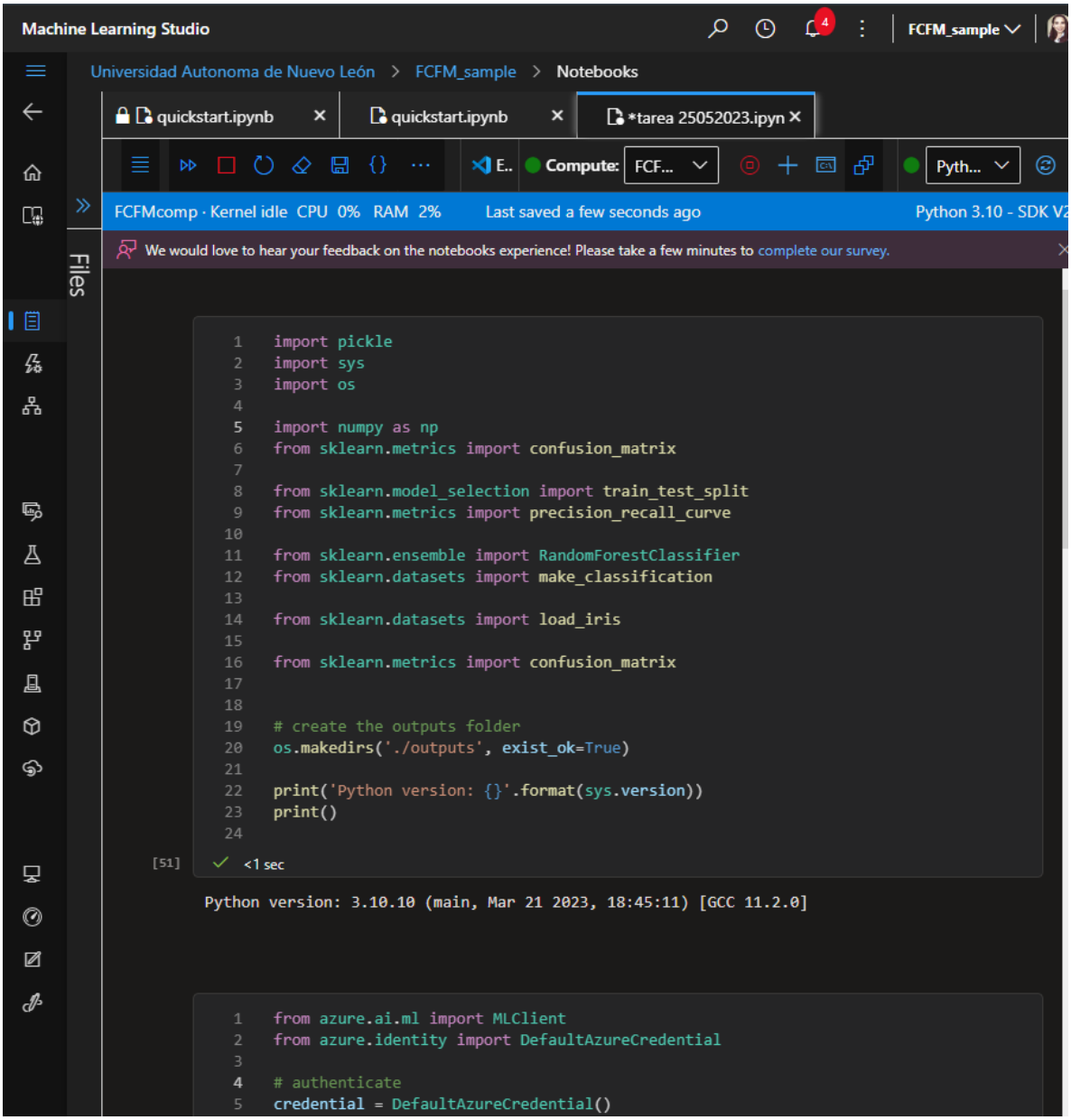
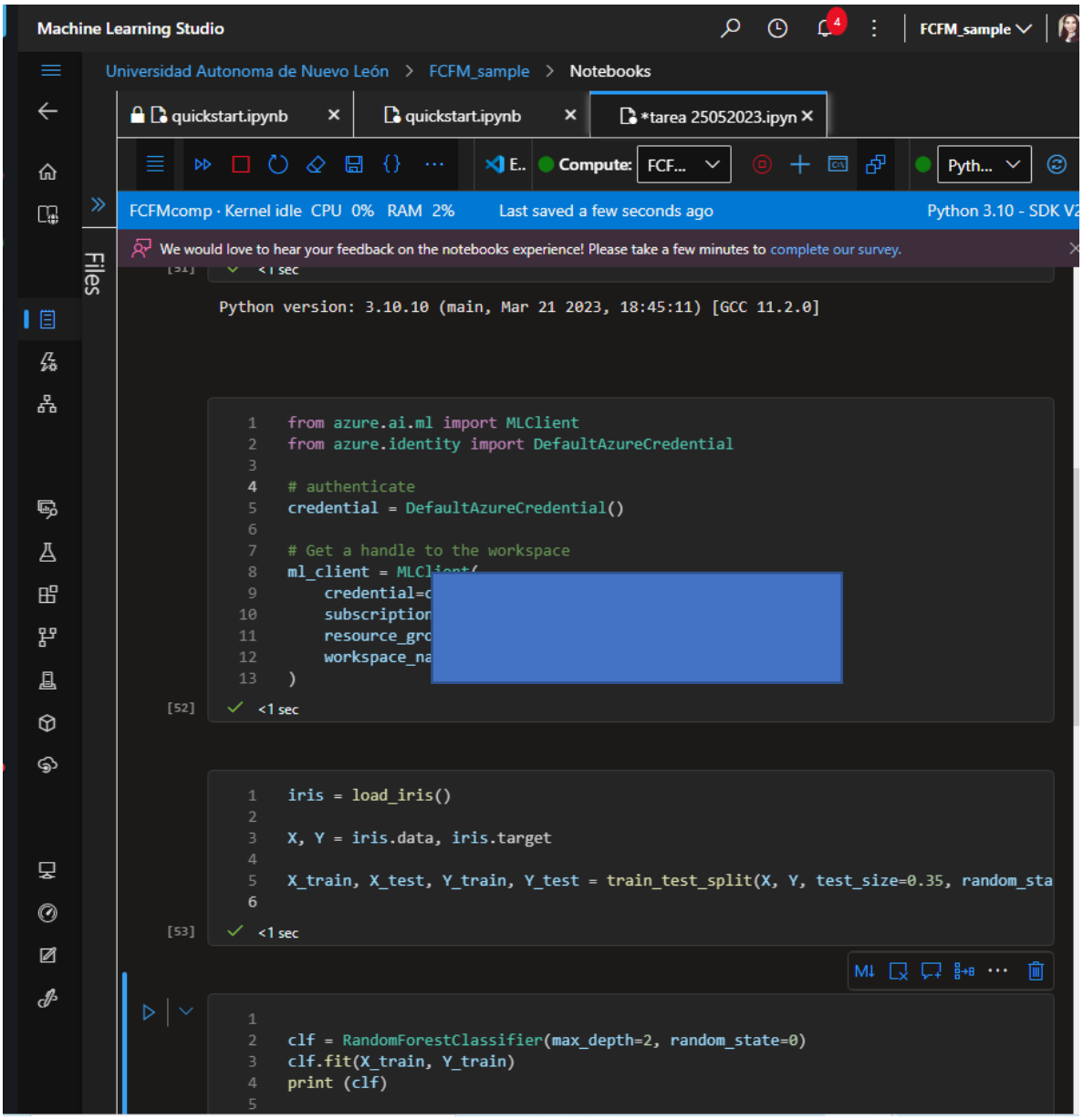
Ejemplo de un modelo de clasificación con el conjunto de iris en azure machine learning studio.

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FCFM_sample
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quickstart.ipynb
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Compute: FCF...
Pyth...
FCFMcomp · Kernel idle CPU 0% RAM 2%
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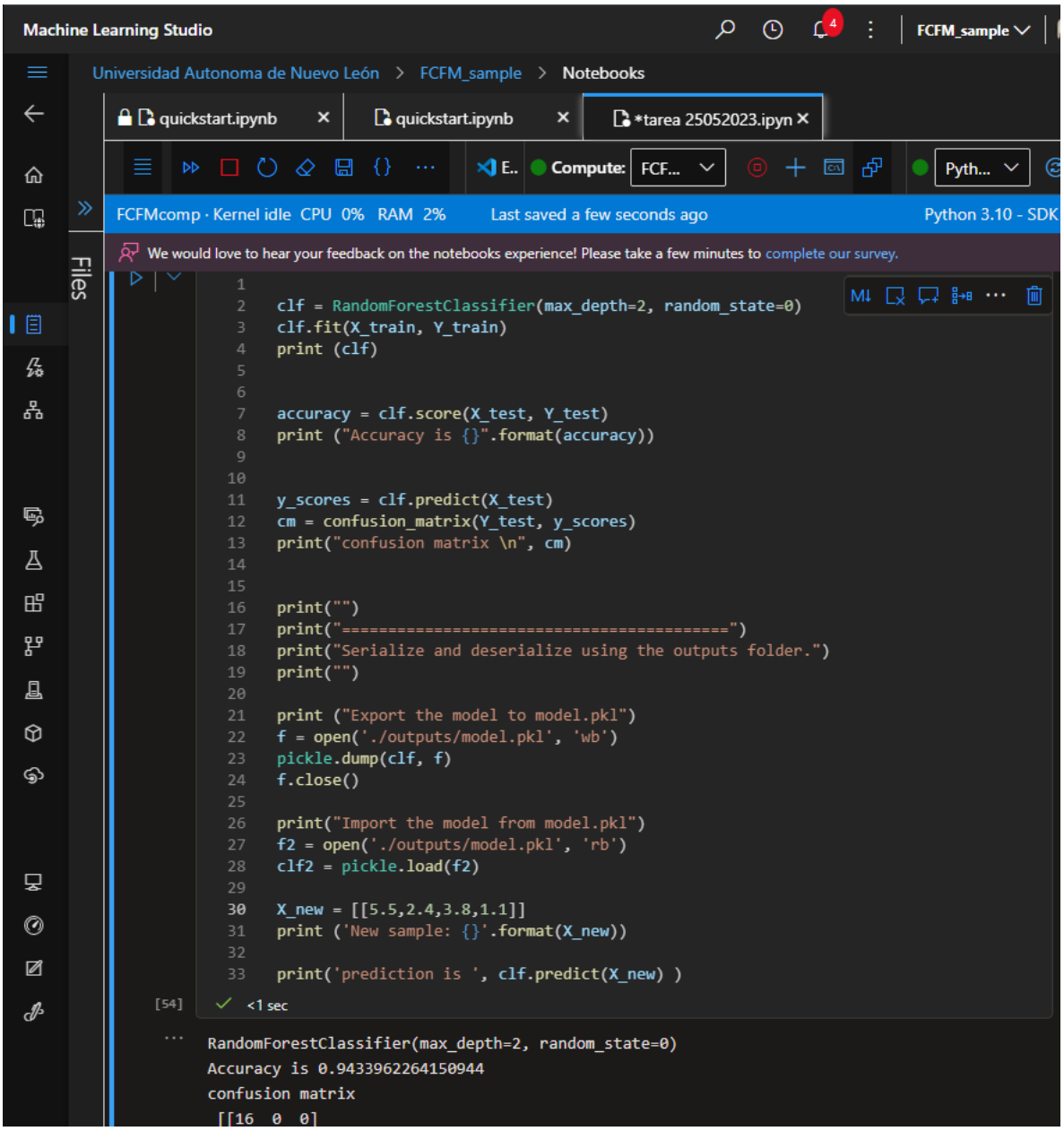
Python 3.10 - SDK V2
We would love to hear your feedback on the notebooks experience! Please take a few minutes to complete our survey.
Files
Python version: 3.10.10 (main, Mar 21 2023, 18:45:11) [GCC 11.2.0]
from azure.ai.ml import MLClient
from azure.identity import DefaultAzureCredential
# authenticate
credential = DefaultAzureCredential()
# Get a handle to the workspace
ml_client = MLClient(
credential=c
subscriptior
resource_gro
workspace_na
)
[52] <1 sec
iris = load_iris()
X, Y = iris.data, iris.target
X_train, X_test, Y_train, Y_test = train_test_split(X, Y, test_size=0.35, random_sta
[53] <1 sec
clf = RandomForestClassifier(max_depth=2, random_state=0)
clf.fit(X_train, Y_train)
print (clf)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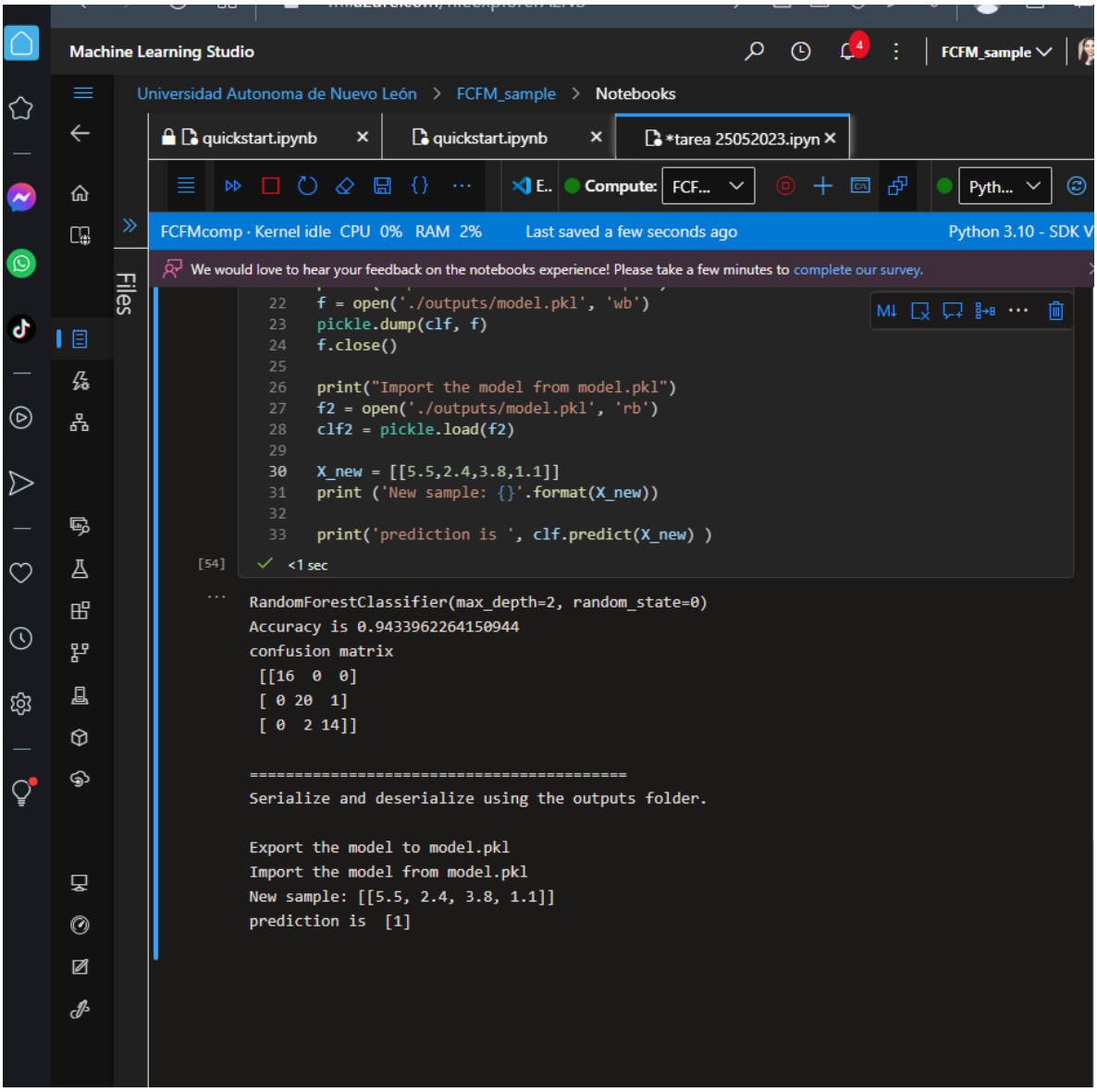
Files
clf = RandomForestClassifier(max_depth=2, random_state=0)
clf.fit(X_train, Y_train)
print (clf)
accuracy = clf.score(X_test, Y_test)
print ("Accuracy is {}".format(accuracy))
y_scores = clf.predict(X_test)
cm = confusion_matrix(Y_test, y_scores)
print("confusion matrix \n", cm)
print("")
print("=======================================")
print("Serialize and deserialize using the outputs folder.")
print("")
print ("Export the model to model.pkl")
f = open('./outputs/model.pkl', 'wb')
pickle.dump(clf, f)
f.close()
print("Import the model from model.pkl")
f2 = open('./outputs/model.pkl', 'rb')
clf2 = pickle.load(f2)
X_new = [[5.5,2.4,3.8,1.1]]
print ('New sample: {}'.format(X_new))
print('prediction is ', clf.predict(X_new))
[54]
<1 sec
RandomForestClassifier(max_depth=2, random_state=0)
Accuracy is 0.9433962264150944
confusion matrix
[[16 0 0]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Python 3.10 - SDK V
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[54]
<1 sec
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confusion matrix
[[16 0 0]
[0 20 1]
[0 2 14]]
==========
Serialize and deserialize using the outputs folder.
Export the model to model.pkl
Import the model from model.pkl
New sample: [[5.5, 2.4, 3.8, 1.1]]
prediction is [1]