Highlight Note

## **Adding Explanations to Training Experiments**

When you use an estimator or a script to train a model in an Azure Machine Learning experiment, you can create an explainer and upload the explanation it generates to the run output for later analysis.

## Creating an Explanation in the Experiment Script

To create an explanation in the experiment script, you'll need to ensure that the **azureml-interpret** package is installed in the run environment. Then you can use these to create an explanation from your trained model and upload it to the run outputs.

```
# Import Azure ML run library
from azureml.core.run import Run
from azureml.interpret.explanation.explanation client import ExplanationClient
from interpret.ext.blackbox import TabularExplainer
# other imports as required
# Get the experiment run context
run = Run.get_context()
# code to train model goes here
# Get explanation
explainer = TabularExplainer(model, X_train, features=features, classes=labels)
explanation = explainer.explain global(X test)
# Get an Explanation Client and upload the explanation
explain_client = ExplanationClient.from_run(run)
explain_client.upload_model_explanation(explanation, comment='Tabular Explanation')
# Complete the run
run.complete()
```

## Viewing the Explanation

You can view the explanation you created for your model in the **Explanations** tab for the run in Azure Machine learning studio.

You can also use the **ExplanationClient** object to download the explanation in Python.