Create a Scikit-learn Prediction Service on Cloud MLE

The code for creating a prediction service is shown in the following, and is saved in the file 'create-prediction-service.sh'.

The preceding code references a configuration file 'config.yaml'. This file (as shown in the following) holds the configuration for the Scikit-learn model. Let's briefly go through the attributes listed:

- deploymentUri: This points to the bucket location of the Scikit-learn model.
- runtime version: This attribute specifies the Cloud MLE runtime version.
- framework: This attribute is of particular importance as it specifies the model framework in use; this can be SCIKIT_LEARN, XGBOOST, or TENSORFLOW. For this example, it is set to SCIKIT_LEARN.
- pythonVersion: This attribute specifies the Python version in use.

```
The 'config.yaml' is as defined in the following:

deploymentUri: "gs://iris-sklearn/iris_20181119_050517"

runtimeVersion: '1.8'

framework: "SCIKIT_LEARN"

pythonVersion: "3.5"

Run the following command to create a prediction service.

source ./scripts/create-prediction-service.sh

Creating model...

Created ml engine model [projects/quantum-ally-219323/models/iris_sklearn].

Creating worsion (this might take a few minutes).....done.
```

Make Online Predictions from the Scikit-learn Model

The code to make an online prediction from the Scikit-learn model is shown in the following and is stored in the file 'online-prediction.sh.' In online predictions, the input data is passed directly as a JSON string.