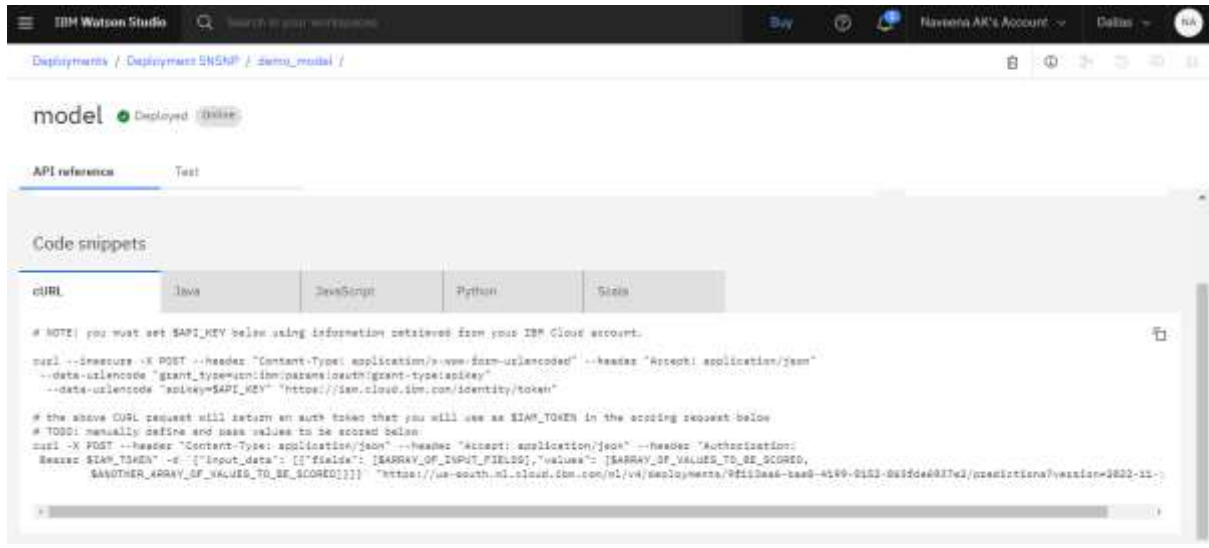


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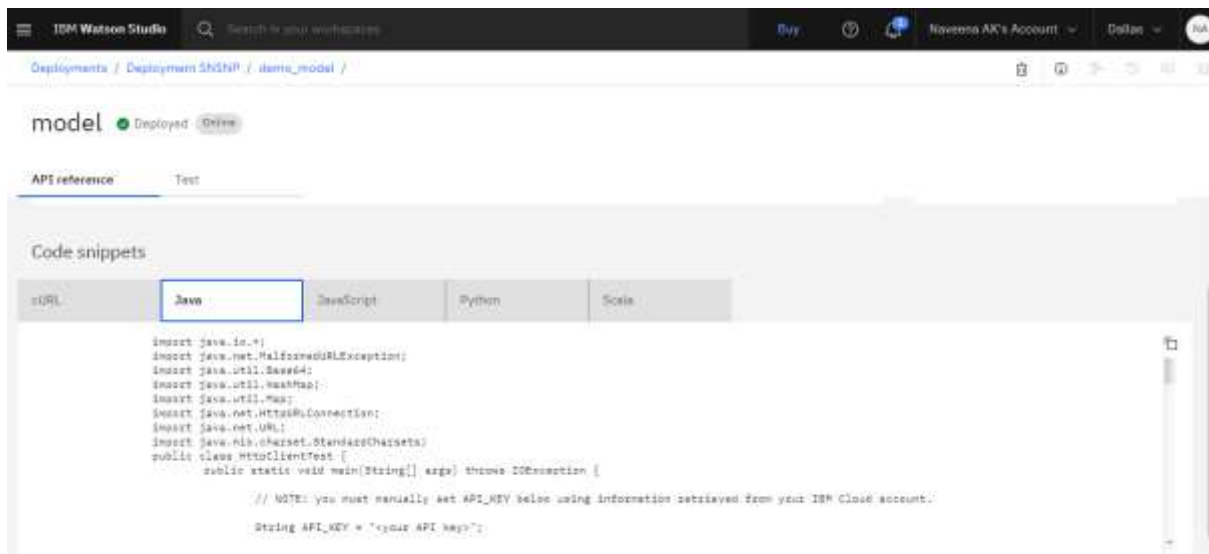


The screenshot shows the IBM Watson Studio interface. At the top, there's a navigation bar with 'IBM Watson Studio', a search bar, and user account information. Below the navigation bar, the breadcrumb trail reads 'Deployments / Deployment SHSNP / demo_model /'. The main content area shows a 'model' deployment status as 'Deployed' with an 'Online' badge. Below this, there are tabs for 'API reference' and 'Test'. The 'Code snippets' section is active, displaying a table with columns for different languages: cURL, Java, JavaScript, Python, and Scala. The 'cURL' tab is selected, showing a code snippet for making an API call. The snippet includes a note about setting the API key and a curl command to obtain an API token, followed by a POST request to the model endpoint.

```
# NOTE: you must set API_KEY below using information retrieved from your IBM Cloud account.

curl --insecure -X POST --header "Content-Type: application/x-www-form-urlencoded" --header "Accept: application/json"
--data-urlencode "grant_type=urn:ibm:params:oauth:grant-type:apikey"
--data-urlencode "apikey=API_KEY" "https://iam.cloud.ibm.com/identity/token"

# the above cURL request will return an auth token that you will use as IAM_TOKEN in the scoring request below
# TODO: manually define and pass values to be scored below
curl -X POST --header "Content-Type: application/json" --header "Accept: application/json" --header "Authorization:
Bearer IAM_TOKEN" -s -i -i "input_data": [{"fields": [{"$ARRAY_OF_INPUT_FIELDS}], "values": [{"$ARRAY_OF_VALUES_TO_BE_SCORED",
"$ANOTHER_ARRAY_OF_VALUES_TO_BE_SCORED"}]}] "https://us-south.ml.cloud.ibm.com/v1/v4/deployments/9f112a66-baa0-4169-9152-8615de6017e2/predictions?version=2022-11-
```



The screenshot shows the same IBM Watson Studio interface as the previous one, but with the 'Java' tab selected in the 'Code snippets' section. The 'API reference' and 'Test' tabs are still visible. The 'Java' code snippet shows the necessary imports for Java (java.io.*, java.net.*, java.util.*, java.util.concurrent.*, java.util.*), followed by a public class 'HttpClientTest' with a main method. A note indicates that the API key must be manually set.

```
import java.io.*;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.*;
import java.util.concurrent.*;
import java.util.*;
import java.net.HttpURLConnection;
import java.net.URL;
import java.nio.charset.StandardCharsets;

public class HttpClientTest {
    public static void main(String[] args) throws IOException {

        // NOTE: you must manually set API_KEY below using information retrieved from your IBM Cloud account.
        String API_KEY = "<your API key>";
```

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model Deployed Online

API reference

Test

Code snippets

URL

Java

JavaScript

Python

Scala

```
const XMLHttpRequest = require("xmlhttprequest").XMLHttpRequest;

// NOTE: you must manually enter your API_KEY below using information retrieved from your IBM Cloud
const API_KEY = "your API key";

function getAccessToken(callback) {
  const req = new XMLHttpRequest();
  req.addEventListener("load", loadCallback);
  req.addEventListener("error", errorCallback);
  req.open("POST", "https://iam.cloud.ibm.com/identity/token");
  req.setRequestHeader("Content-Type", "application/x-www-form-urlencoded");
  req.setRequestHeader("Accept", "application/json");
  req.send("grant_type=urn:ibm:params:oauth:grant-type:apikey&apikey=" + API_KEY);
}
```

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```
import requests

# NOTE: you must manually set API_KEY below using information retrieved from your IBM Cloud account.
API_KEY = "your API key"
token_response = requests.post("https://iam.cloud.ibm.com/identity/token", data={"apikey":
  API_KEY, "grant_type": "urn:ibm:params:oauth:grant-type:apikey"})
accessToken = token_response.json()["access_token"]

headers = {"Content-Type": "application/json", "Authorization": "Bearer " + accessToken}

# NOTE: manually define and pass the array(s) of values to be scored in the next line
payload_scoring = {"input_data": [{"fields": [array_of_input_fields], "values": [array_of_values_to_be_scored, another_array_of_values_to_be_scored]}]}

response_scoring = requests.post("https://us-south-1.cloud.ibm.com/v4/deployments/2f11be6d-bae0-4199-8152-8d3fde827a2/predictions?version=2022-11-
  headers={"Authorization": "Bearer " + accessToken})
```

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```
import scala.http.{Http, HttpOptions}
import scala.util.{Success, Failure}
import java.util.Base64
import java.nio.charset.StandardCharsets
import play.api.libs.json._

// NOTE: you must manually set API_KEY below using information retrieved from your IBM Cloud account.
val API_KEY = "your api key"

// Get IAM service token
val iam_url = "https://iam.cloud.ibm.com/identity/token"
val iam_response = Http(iam_url).header("Content-Type", "application/x-www-form-urlencoded").header("Accept",
  "application/json").header("Grant-type" -> "urn:ibm:params:oauth:grant-type:apikey",
  "apikey" -> API_KEY).asString
```

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