

Project Development Phase Delivery of Sprint 3 Train the model on IBM

Date	17 November 2022
Team ID	PNT2022TMID30154
Project Name	Project - Early Detection of Chronic Kidney Disease

IBM Cloud – Model Deployment :

Deploying our model on IBM cloud

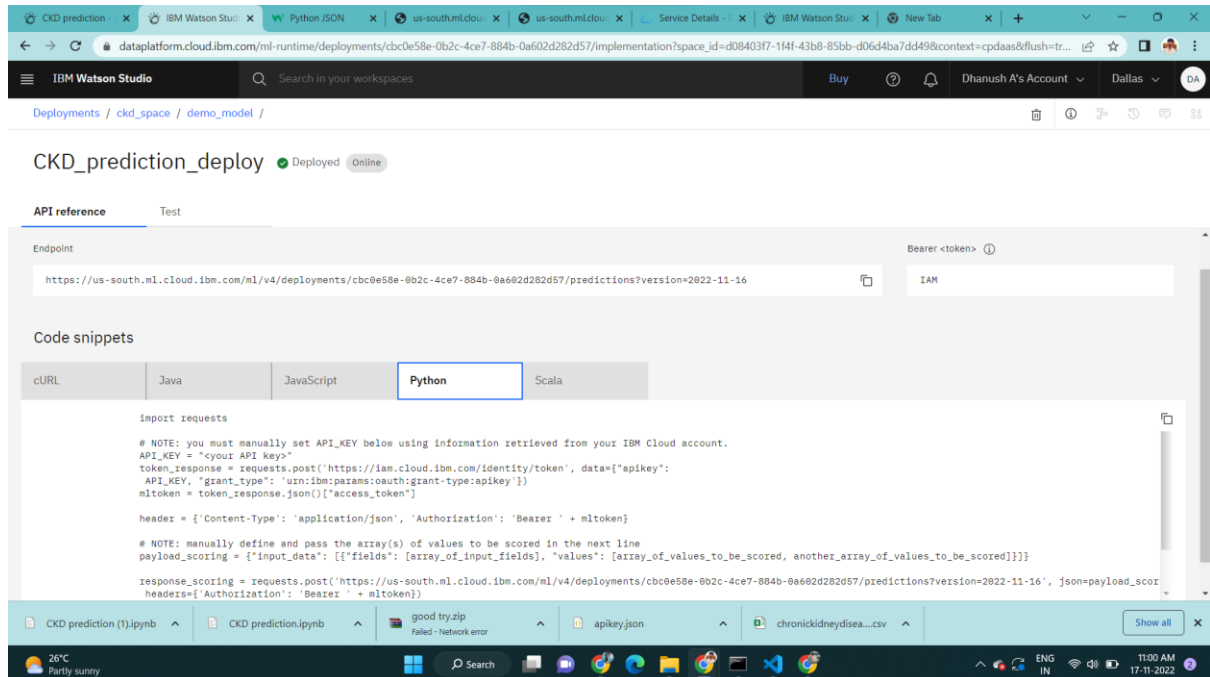
The screenshot shows the IBM Watson Studio web interface. The top navigation bar includes the IBM Watson Studio logo, a search bar, and user account information. The main content area is divided into tabs: Overview, Assets, Jobs, and Manage. The 'Assets' tab is active, showing a list of assets. On the left, there is a sidebar with 'Asset types' including 'Data' (1 item) and 'Notebooks' (1 item). The main list shows two assets: 'CKD prediction Notebook' (modified 22 hours ago) and 'chronickidneydisease.csv' (modified 1 day ago). On the right, there is a 'Data in this project' section with a prompt to 'Drop data files here or browse for files to upload'. The bottom status bar shows the current project and a 'Show all' button.

API key generated.

```
{
  "name": "ckd_apikey",
  "description": "",
  "createdAt": "2022-11-16T05:50+0000",
  "apikey": "xiMVDb4L5mvINXcJ2991XUc8UF-5ILsZp-nMFjTk4CjQ"
}
```

Endpoint link generated :

<https://us-south.ml.cloud.ibm.com/ml/v4/deployments/cbc0e58e-0b2c-4ce7-884b-0a602d282d57/predictions?version=2022-11-16>



Code Snippets (Python) :

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'})

mltoken = token_response.json()["access_token"]

header = {'Content-Type': 'application/json', 'Authorization': 'Bearer ' + mltoken}

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.ml.cloud.ibm.com/ml/v4/deployments/cbc0e58e-0b2c-4ce7-884b-0a602d282d57/predictions?version=2022-11-16', json=payload_scoring, headers={'Authorization': 'Bearer ' + mltoken}))

print("Scoring response")

print(response_scoring.json())
```

Space created on cloud and model successfully deployed.

