

TRAINED MODEL TO DETECT CHRONIC KIDNEY DISEASE

OVERVIEW

The screenshot shows the IBM Watson Studio interface for a project named 'CKD'. The 'Overview' tab is selected, displaying a summary of assets and deployments. The 'Assets' section lists four CKD model assets, each created 18 hours ago. The 'Deployments' section shows one deployed version and zero failed versions. The 'Job runs' section shows zero active and zero failed runs. A file upload prompt is visible on the right side of the interface.

IBM Watson Studio Overview for CKD

Assets: 4 assets (All assets, Models)

Deployments: 1 Deployed, 0 Failed

Job runs: 0 Active, 0 Failed (last 24 hours)

ASSETS

The screenshot shows the IBM Watson Studio interface for the 'CKD' project, specifically the 'Assets' tab. It displays a list of four CKD model assets, each created 18 hours ago. The 'Assets' table has columns for Name and Last modified. The 'Asset types' section shows four models. A file upload prompt is visible on the right side of the interface.

IBM Watson Studio Assets for CKD

Find assets: 4 assets (All assets, Models)

Name	Last modified
CKD Model Service	17 hours ago
CKD Model Service	18 hours ago
CKD Model Service	18 hours ago

Items per page: 20, 1-4 of 4 items, 1 of 1 pages

DEPLOYMENTS

The screenshot shows the IBM Watson Studio interface. The browser address bar indicates the URL: `dataplatform.cloud.ibm.com/ml-runtime/spaces/5bbc03d9-eb65-47a7-94c2-dfc9cb98c13d/deployments?context=cpdaas`. The page title is "Deployments /". The main content area shows the "CKD" deployment page. The "Deployments" tab is selected, showing a table with one deployment:

Name	Type	Status	Asset	Last modified
CKD	Online	Deployed	CKD	17 hours ago Chandana Kamma Cheruvu Jayaraja (You)

Below the table, it shows "Items per page: 20" and "1 of 1 items". On the right side, there is a sidebar with a file upload area that says "Drop files here or browse for files to upload." and a message: "Stay on the page until upload completes. Incomplete uploads are cancelled."

MANAGE DETAILS

The screenshot displays the IBM Watson Studio web interface. At the top, the browser address bar shows the URL: `datapatform.cloud.ibm.com/ml-runtime/spaces/5bbc03d9-eb65-47a7-94c2-dfc9cb98c13d/manage?context=cpdaas`. The navigation bar includes the IBM logo, a search bar, and user information for Chandana Kamma Cheruvu. The main content area is titled 'Deployments /' and shows a list of deployment tabs: Overview, Assets, Deployments, Jobs, and Manage. The 'Manage' tab is selected and highlighted with a blue border. On the left sidebar, the 'General' section is active, showing 'Access control' and 'Environments' options. The main panel displays 'Space Details' for a deployment named 'CKD'. The 'Description' field is empty, with the text 'No description provided.' Below it, the 'Space GUID' is listed as '5bbc03d9-eb65-47a7-94c2-dfc9cb98c13d'. To the right, the 'Cloud Object...' section shows 'Storage used' as '977.61 KB used'. The 'Name' is 'Cloud Object Storage-qs' and the 'Bucket' is '1b2f6e79-237d-4742-8169-c3ada79e29ed'. A notification box on the right side of the screen states: 'Drop files here or browse for files to upload.' Below this, a message reads: 'Stay on the page until upload completes. Incomplete uploads are cancelled.'

API REFERENCE

The screenshot shows the IBM Watson Studio interface. The top navigation bar includes the IBM logo, search bar, and user profile. The main content area displays the 'API reference' for the 'CKD' deployment. The 'Code snippets' tab is active, showing a Python code snippet for making a POST request to the API. The code includes comments about setting the API key and manually defining input data. The right sidebar shows deployment details: Created (Nov 18, 2022, 12:59 AM), Updated (Nov 18, 2022, 12:59 AM), Deployment ID (f1dfeb85-c1e4-4b8e-a479-a43...), Software specification (runtime-22.1-py3.9), Copies (1), Serving name (No serving name), and Description (No description provided).

```
import requests

# NOTE: you must manually set API_KEY below using information retrieved from your IBM Cloud account
API_KEY = "your API keys"
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]}]}

response_scoring = requests.post('https://us-south.ml.cloud.ibm.com/ml/v4/deployments/f1dfeb85-c1e4-4b8e-a479-a43.../scoring', headers=header, json=payload_scoring)
```

TEST MODEL

The screenshot shows the 'Test' tab of the IBM Watson Studio interface for the 'CKD' deployment. The 'Enter input data' section is active, showing a table with 10 columns: bp (int64), al (int64), bu (float64), sg (float64), sod (float64), hemo (float64), pcv (int64), rc (float64), htn (int64), and dm (int64). The table contains one row of data. The 'Predict' button is visible at the bottom right.

	bp (int64)	al (int64)	bu (float64)	sg (float64)	sod (float64)	hemo (float64)	pcv (int64)	rc (float64)	htn (int64)	dm (int64)
1	80	0	87	1.02	139	12.1	40	4.8	1	0

RESULT

