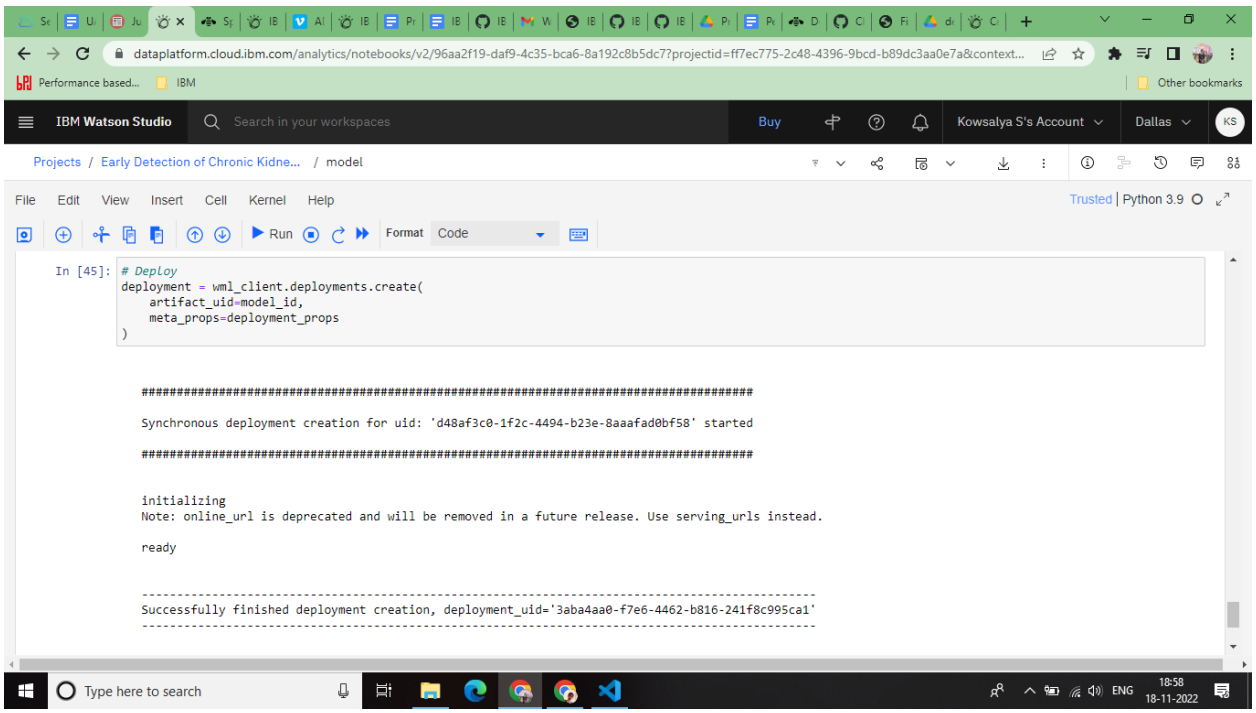
IBM DEPLOYMENT

Date	19 November 2022
Team ID	PNT2022TMID04381
Project Name	Project - Early Detection of Chronic Kidney Disease Using Machine Learning

DEPLOYMENT:



dataplatform.cloud.ibm.com/ml-runtime/spaces/a2703323-87ed-47d3-9b8e-73636cf5ea75/assets?context=cpdaas

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Deployments /

model_ibm

Overview | **Assets** | Deployments | Jobs | Manage

Find assets | Import assets

2 assets

All assets 2

Asset types

Models 2

Assets

Name	Last modified
prediction Model	6 minutes ago Service
iris Model	40 minutes ago Service

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Deployments /

model_ibm

Overview | Assets | **Deployments** | Jobs | Manage

Search

Name	Type	Status	Asset	Last modified
model_ibm	Online	Deployed	prediction	5 minutes ago Kowsalya S (You)

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dataplatform.cloud.ibm.com/ml-runtime/deployments/3aba4aa0-f7e6-4462-b816-241f8c995ca1?space_id=a2703323-87ed-47d3-9b8e-73636cf5ea75&conte...

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Deployments / model_ibm / prediction /

model_ibm

Deployed Online

API reference | Test

Direct link

Endpoint

https://us-south.ml.cloud.ibm.com/ml/v4/deployments/3aba4aa0-f7e6-4462-b816-241f8c995ca

Bearer <token>

IAM

Code snippets

cURL | Java | JavaScript | Python | Scala

```
# 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
```

model_ibm

Created
Nov 18, 2022, 6:52 PM

Updated
Nov 18, 2022, 6:52 PM

Deployment ID
3aba4aa0-f7e6-4462-b816-24...

Software specification
runtime-22.1-py3.9

Copies
1

Serving name
No serving name.

Description
No description provided.

Tags

Type here to search | ENG | 18:58 18-11-2022

dataplatform.cloud.ibm.com/ml-runtime/deployments/3aba4aa0-f7e6-4462-b816-241f8c995ca1/test?space_id=a2703323-87ed-47d3-9b8e-73636cf5ea...

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Deployments / model_ibm / prediction /

model_ibm

Deployed Online

API reference | Test

Enter input data

Text input | JSON input

Enter data manually or use a CSV file to populate the spreadsheet. Max file size is 50 MB.

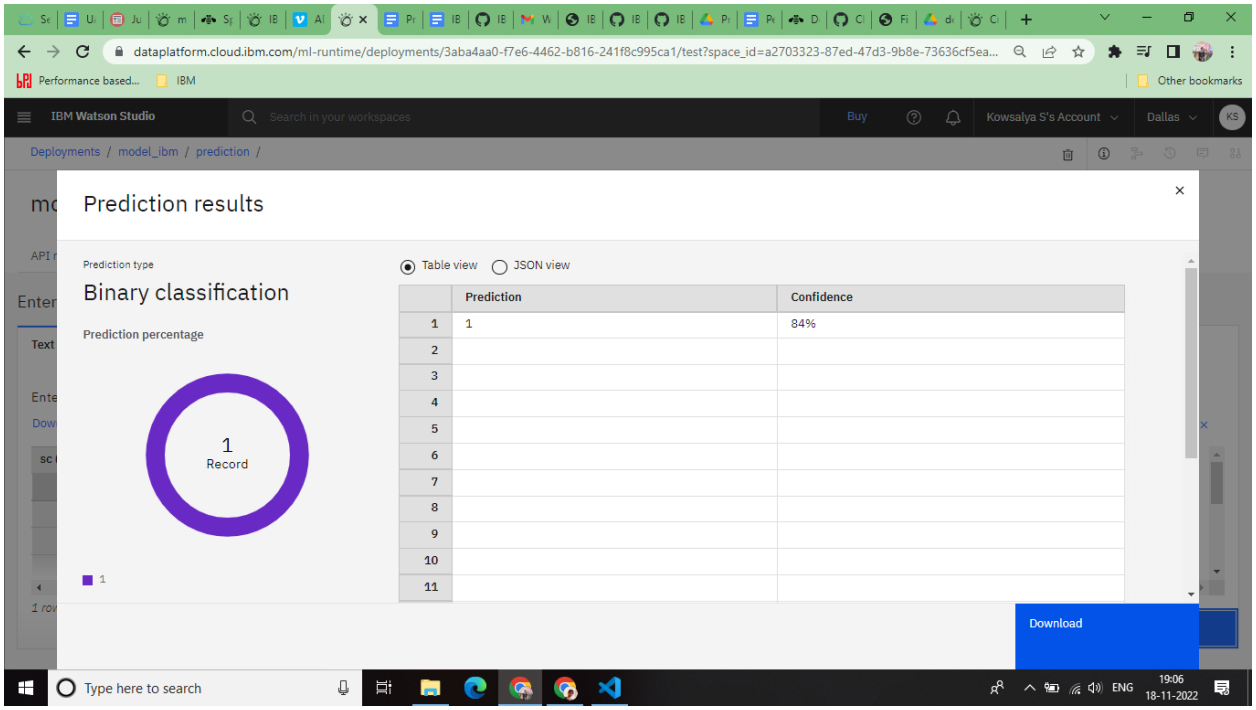
Download CSV template | Browse local files | Search in space | Clear all

	sc (float64)	sod (float64)	pot (float64)	hemo (float64)	wc (float64)	rc (float64)	htn (float64)	dm (float64)	cad (float64)	appet (float64)	pe (float64)	ane (float64)
1		138.0	4.4	15.4	7800.0	5.2	1.0	1.0	0.0	1.0	0.0	0.0
2												
3												
4												

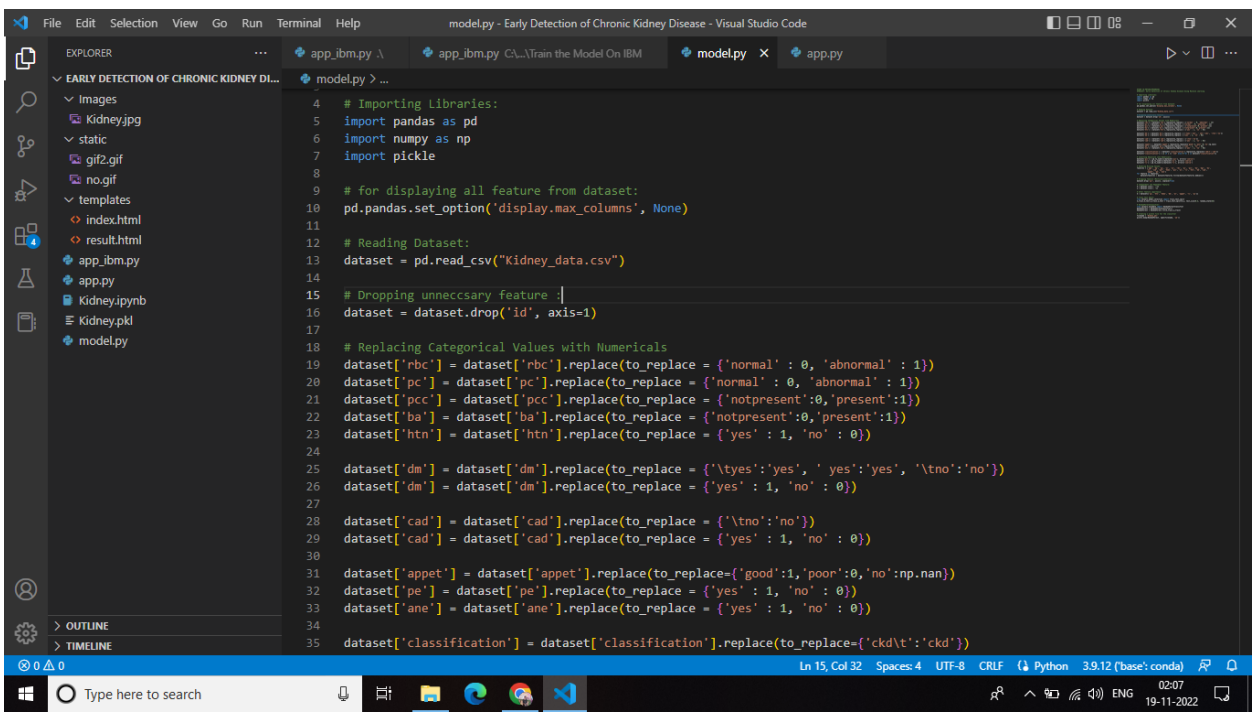
1 row, 23 columns

Predict

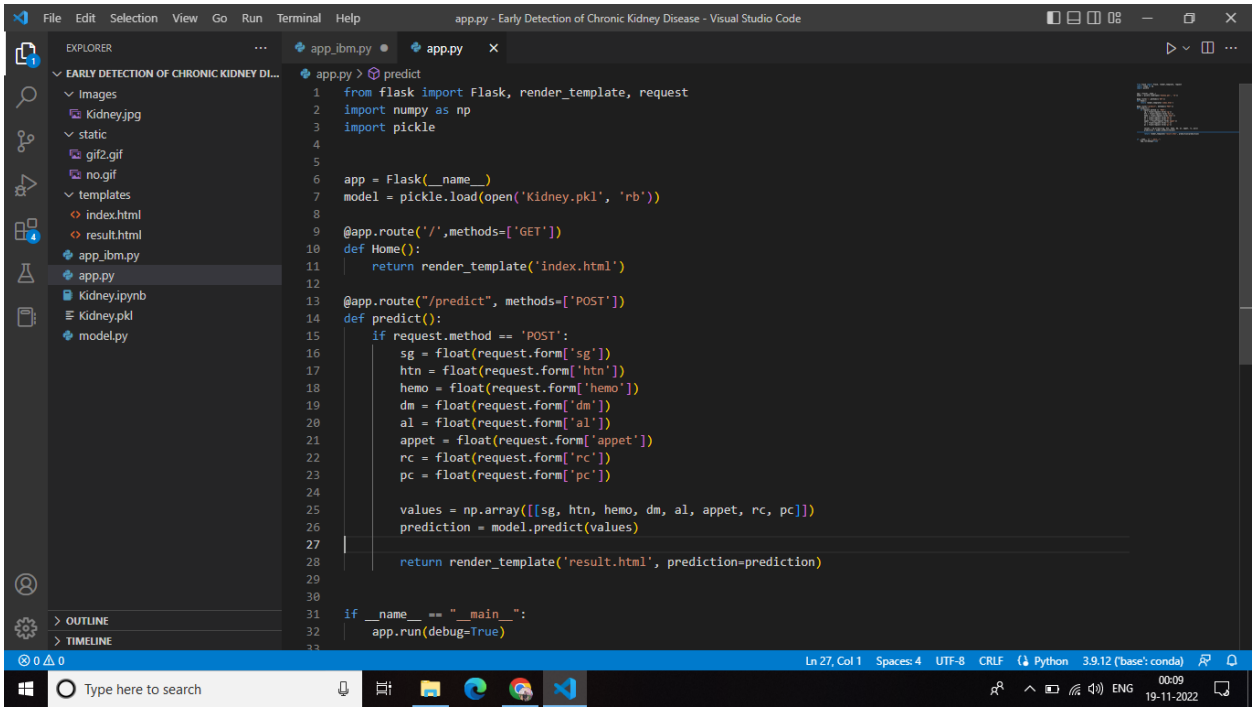
Type here to search | ENG | 19:06 18-11-2022


dataplatform.cloud.ibm.com/ml-runtime/deployments/3aba4aa0-f7e6-4462-b816-241f8c995ca1/test?space_id=a2703323-87ed-47d3-9b8e-73636cf5ea...
IBM Watson Studio
Deployments / model_ibm / prediction /
Prediction results
Prediction type
Binary classification
Prediction percentage
1
Record
Table view
JSON view
Prediction
Confidence
1
84%
Download
Type here to search

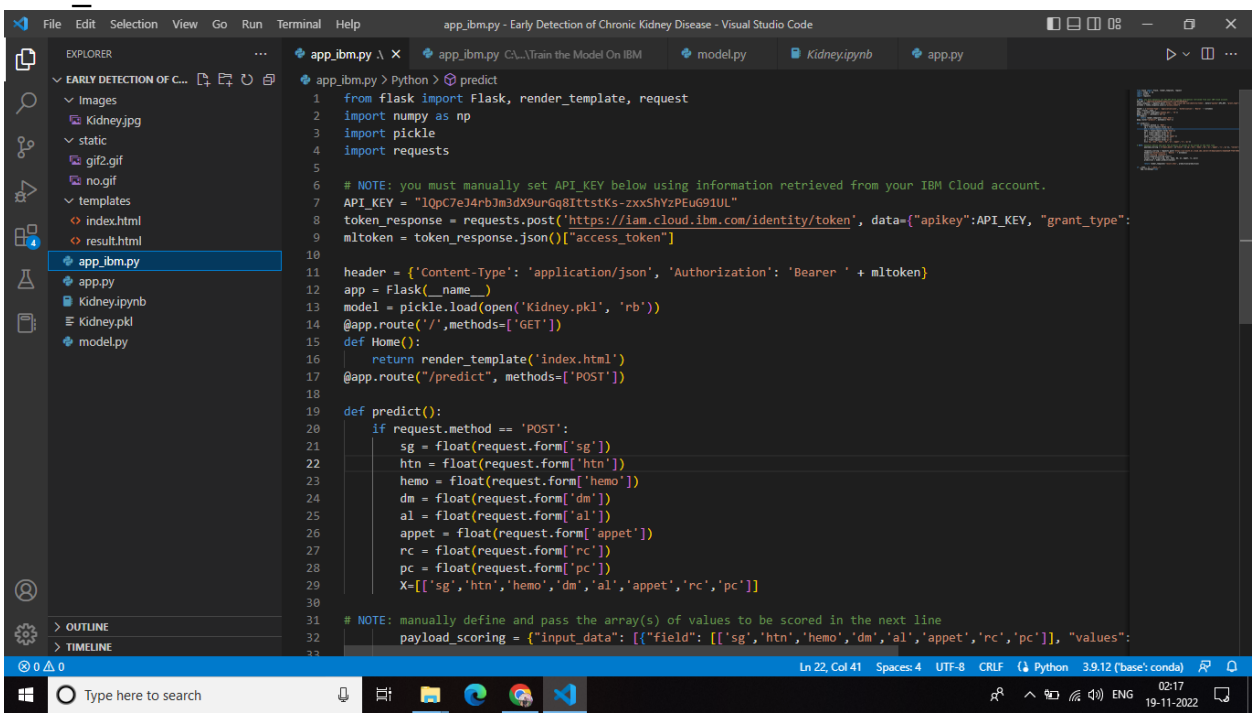
MODEL.PY


model.py - Early Detection of Chronic Kidney Disease - Visual Studio Code
EXPLORER
EARLY DETECTION OF CHRONIC KIDNEY DI...
Images
Kidney.jpg
static
gif2.gif
no.gif
templates
index.html
result.html
app_ibm.py
app.py
Kidney.ipynb
Kidney.pkl
model.py
OUTLINE
TIMELINE
# Importing Libraries:
import pandas as pd
import numpy as np
import pickle
# for displaying all feature from dataset:
pd.pandas.set_option('display.max_columns', None)
# Reading Dataset:
dataset = pd.read_csv("Kidney_data.csv")
# Dropping unneccsary feature :
dataset = dataset.drop('id', axis=1)
# Replacing Categorical Values with Numericals
dataset['rbc'] = dataset['rbc'].replace(to_replace = {'normal' : 0, 'abnormal' : 1})
dataset['pc'] = dataset['pc'].replace(to_replace = {'normal' : 0, 'abnormal' : 1})
dataset['pcc'] = dataset['pcc'].replace(to_replace = {'notpresent':0,'present':1})
dataset['ba'] = dataset['ba'].replace(to_replace = {'notpresent':0,'present':1})
dataset['htn'] = dataset['htn'].replace(to_replace = {'yes' : 1, 'no' : 0})
dataset['dm'] = dataset['dm'].replace(to_replace = {'\tyes':'yes', ' yes':'yes', '\tno':'no'})
dataset['dm'] = dataset['dm'].replace(to_replace = {'yes' : 1, 'no' : 0})
dataset['cad'] = dataset['cad'].replace(to_replace = {'\tno':'no'})
dataset['cad'] = dataset['cad'].replace(to_replace = {'yes' : 1, 'no' : 0})
dataset['appet'] = dataset['appet'].replace(to_replace={'good':1,'poor':0,'no':np.nan})
dataset['pe'] = dataset['pe'].replace(to_replace = {'yes' : 1, 'no' : 0})
dataset['ane'] = dataset['ane'].replace(to_replace = {'yes' : 1, 'no' : 0})
dataset['classification'] = dataset['classification'].replace(to_replace={'ckd\t':'ckd'})
Ln 15, Col 32
Spaces: 4
UTF-8
CRLF
Python
3.9.12 ('base': conda)
Type here to search

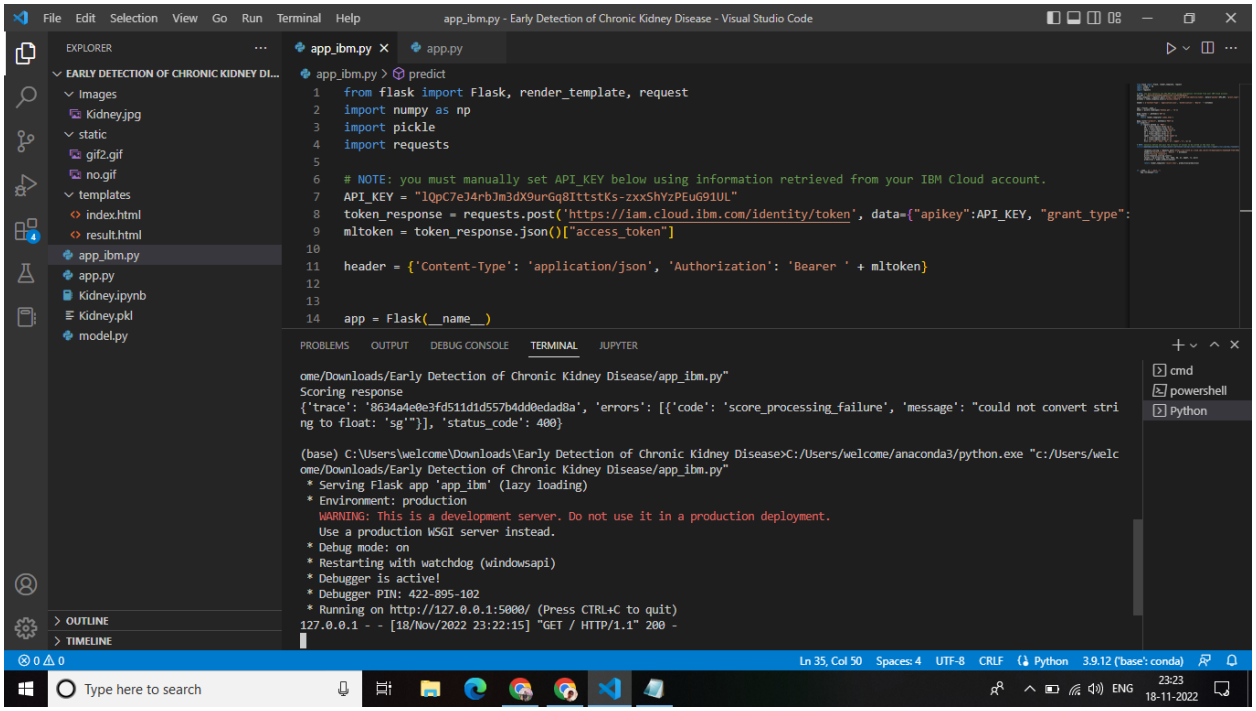
BUILD PYTHON CODE:



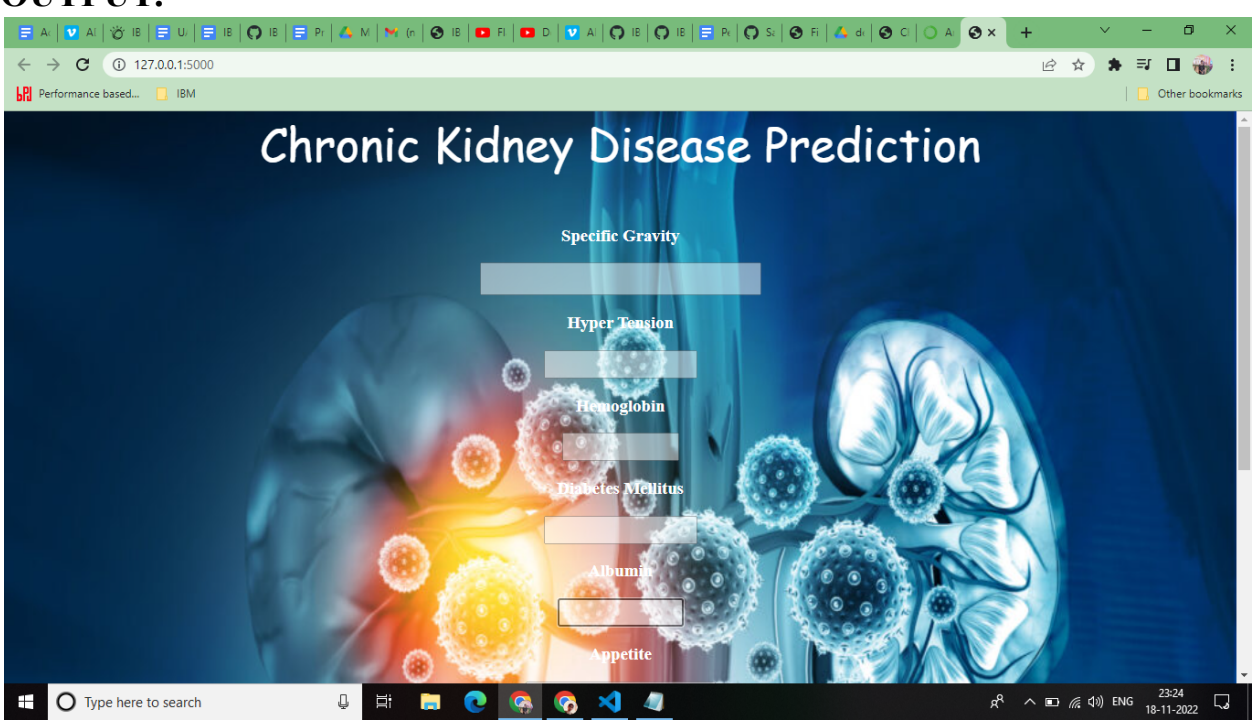
APP_IBM.PY

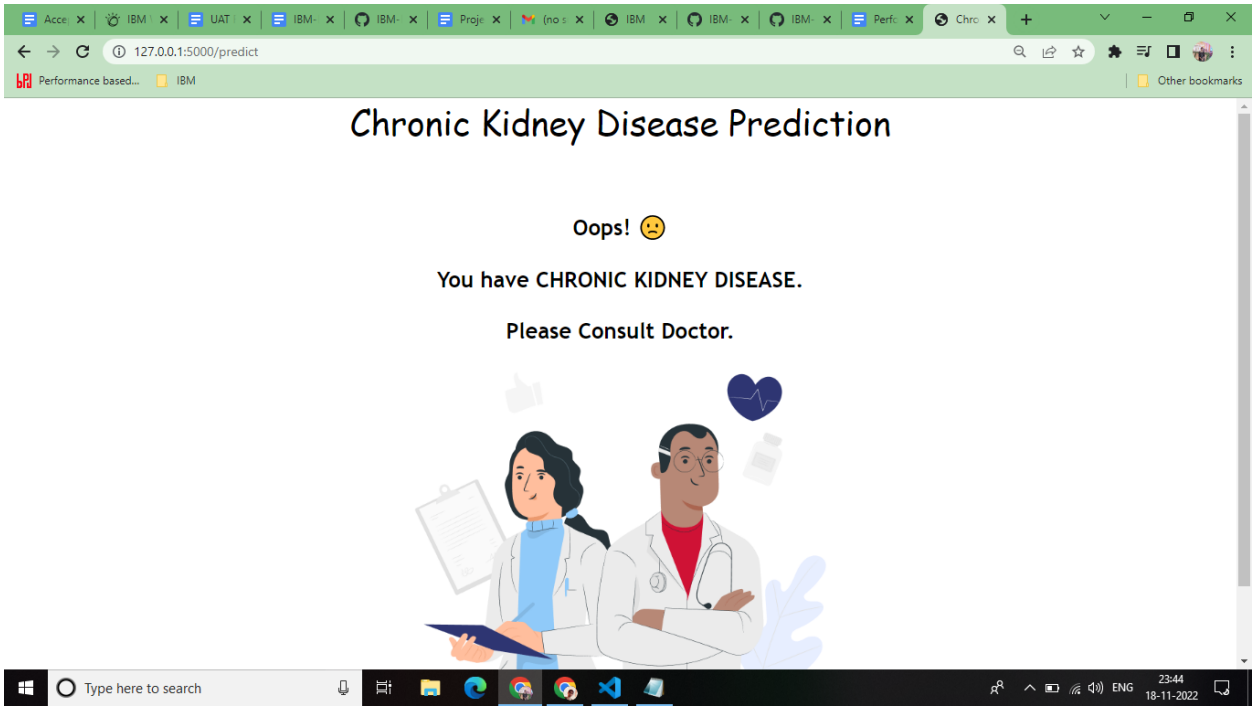


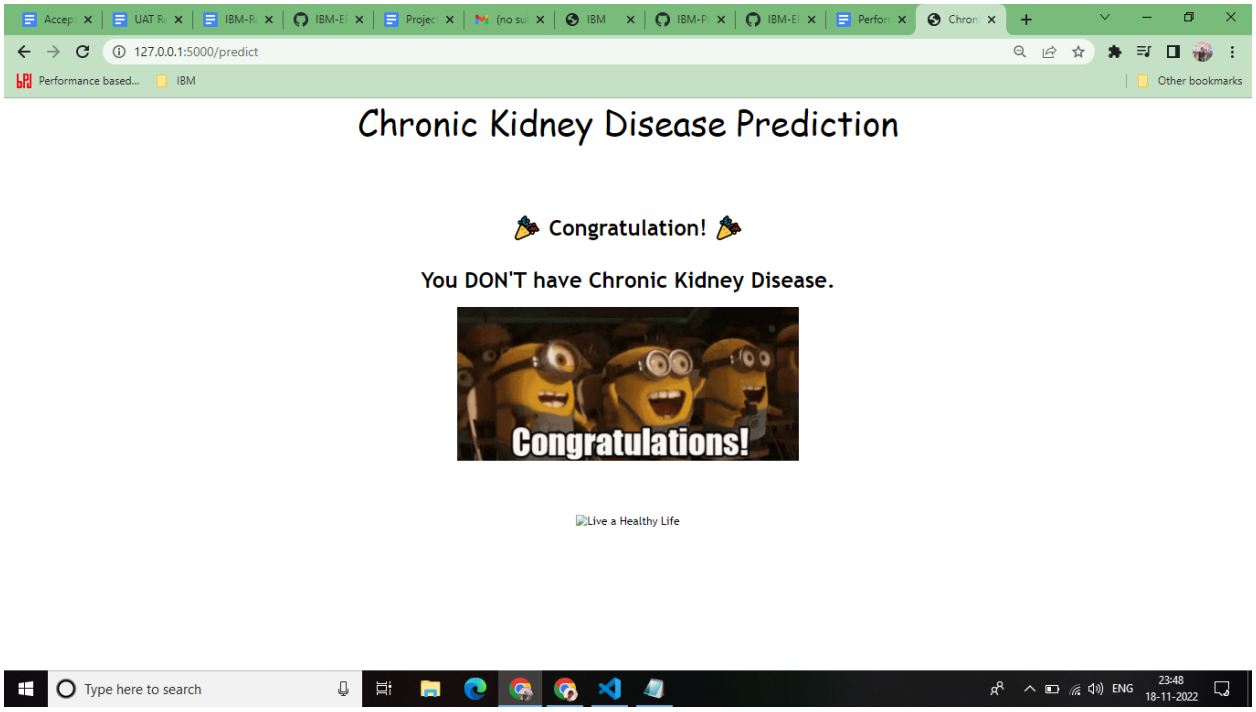
RUN THE APP:



OUTPUT:




127.0.0.1:5000/predict
Chronic Kidney Disease Prediction
Oops! 🙁
You have CHRONIC KIDNEY DISEASE.
Please Consult Doctor.


127.0.0.1:5000/predict
Chronic Kidney Disease Prediction
🎉 Congratulation! 🎉
You DON'T have Chronic Kidney Disease.
Congratulations!
Live a Healthy Life