SPRINT-4

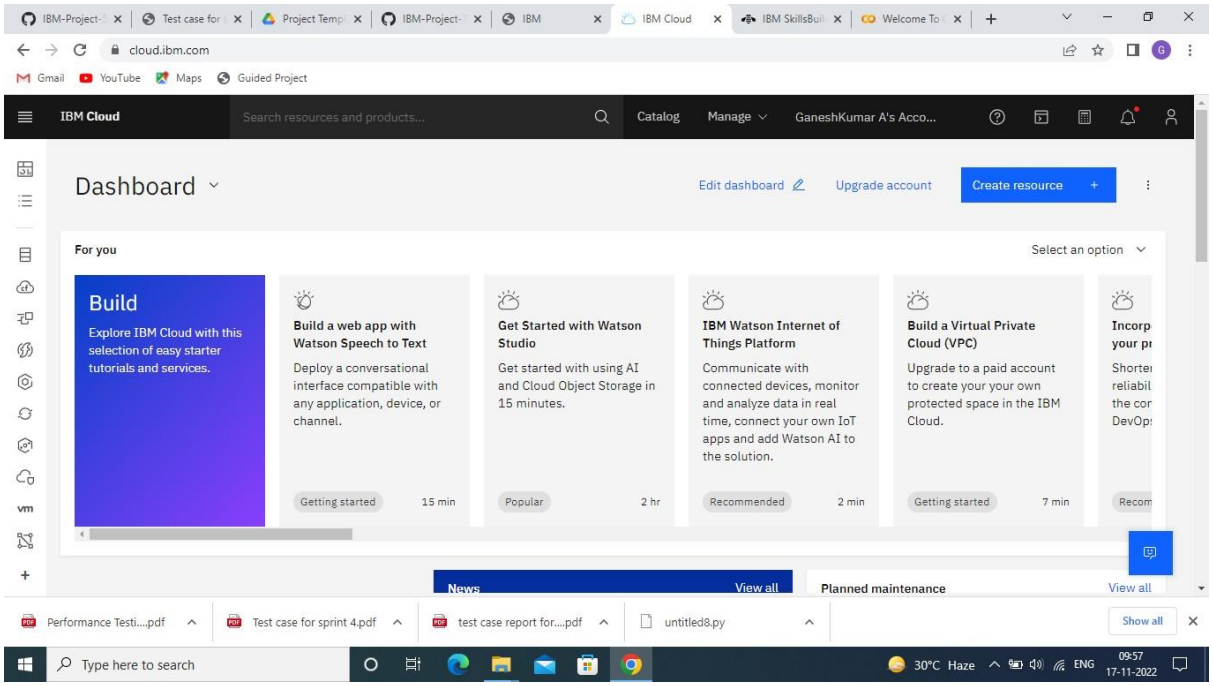
TRAIN THE MODEL ON IBM

Team id	PNT2022TMID23900
Project name	DemandEst - AI powered Food Demand Forecaster

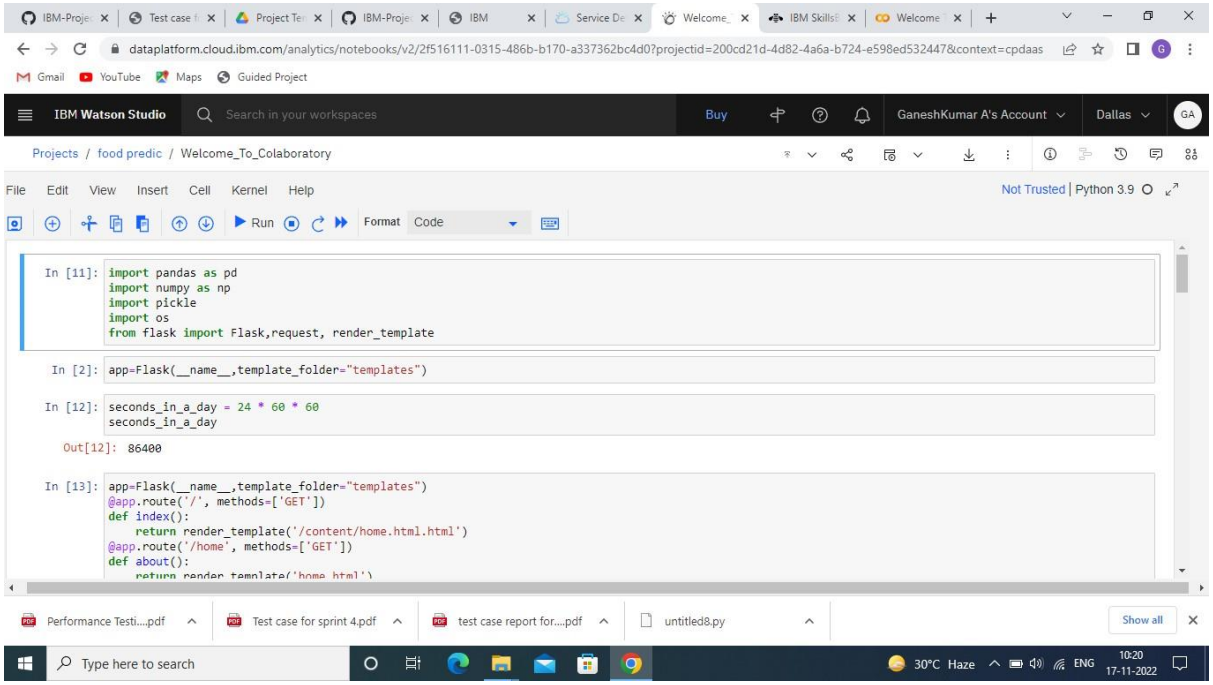
TRAIN THE MODEL ON IBM

Register For IBM Cloud :

- Please register for IBM
- Please log in to IBM Account



Train The ML Model On IBM :



Integrate Flask With Scoring End Point :

import the necessary packages import Integrate

Flask With Scoring End Point :

pandas as pd

import numpy as np

import pickle import

os import requests

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

API_KEY = "68w9XBNJLBQFtHM2rG_aouV4LmlF-EtecYrhIQBQbt_K"

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}


from flask import Flask, request, render_template


app = Flask(__name__, template_folder="/content/app.py")


@app.route('/', methods=['GET']) def

index():

    return render_template('/content/home.html.htmlhome.html')



@app.route('/home', methods=['GET']) def

about():

    return render_template('/content/home.html.html')



@app.route('/pred', methods=['GET']) def

page():

    return render_template('/content/home.html.html')
```

```
@app.route('/predict', methods=['GET', 'POST']) def

predict():

    print("[INFO] loading model...")

    # model = pickle.load(open('fdemand.pkl', 'rb'))

input_features = [int(x) for x in request.form.values()]

print(input_features)     features_value =

[[np.array(input_features)]]     print(features_value)


payload_scoring = {"input_data": [{"field": [['homepage_featured', 'emailer_for_promotion',
'op_area', 'cuisine',

                                        'city_code', 'region_code', 'category']],

"values": [input_features]}]}


    response_scoring = requests.post(

        'https://us-south.ml.cloud.ibm.com/ml/v4/deployments/80afcaad-591d-4869-bf54-
17bbb8c70ea3/predictions?version=2022-11-14',         json=payload_scoring,

headers={'Authorization': 'Bearer ' + mltoken})     print("Scoring response")

print(response_scoring.json())     predictions = response_scoring.json()

print(predictions)     print('Final Prediction Result',

predictions['predictions'][0]['values'][0][0])     pred =

predictions['predictions'][0]['values'][0][0]


    # prediction = model.predict(features_value)

    # output=prediction[0]

    # print(output)'"
```

print(pred) return render_template('upload.html',

prediction_text=pred)

if __name__ == '__main__': app.run(debug=False)