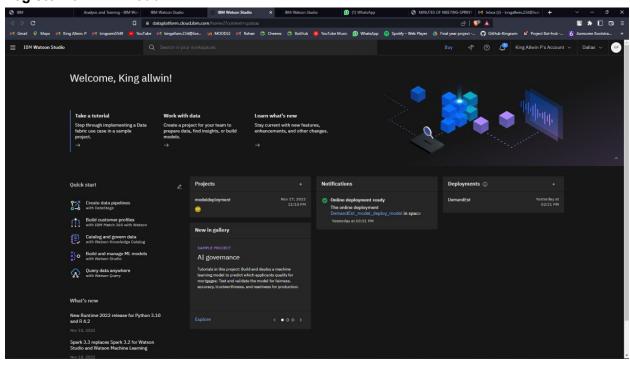
## Sprint IV Train the Model in IBM

Date	18 November 2022
Team ID	PNT2022TMID27576
Project Name	DemandEst - AI powered Food Demand
	Forecaster

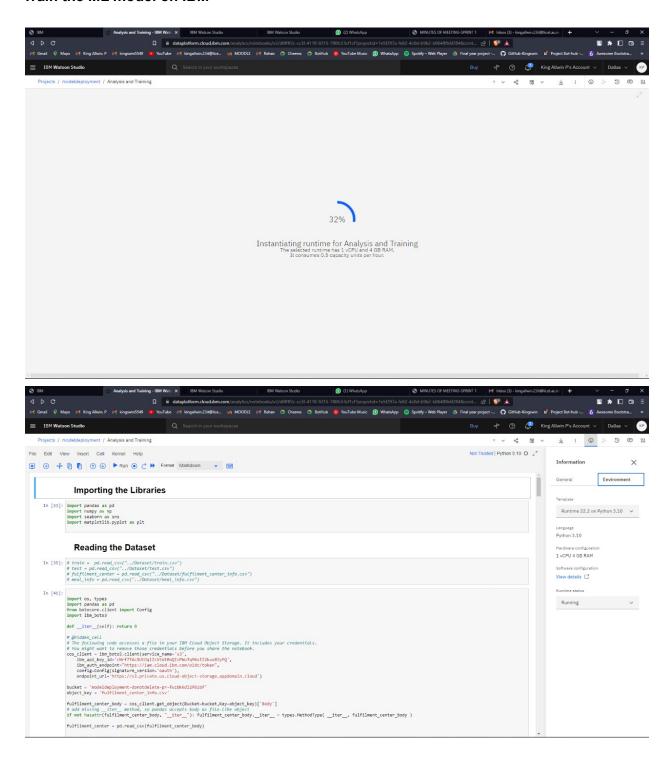
## **Screenshots:**

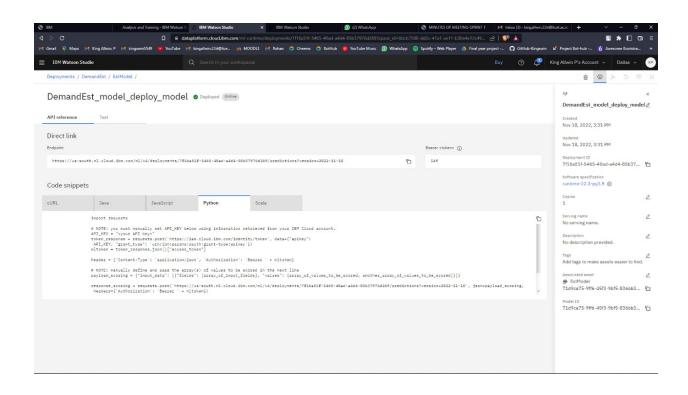
- 1. Register for IBM Cloud
- 2. Train the ML model on IBM
- 3. Integrate Flask with Scoring Endpoint

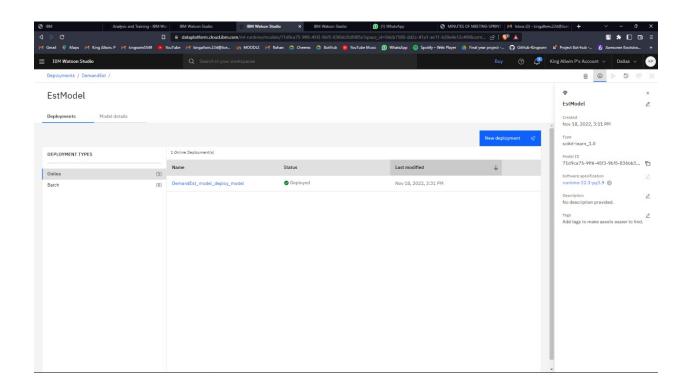
## **Register for IBM Cloud**



## Train the ML model on IBM







```
@app.route('/predict-value', methods=['POST'])
def predict():
   input features = [float(x) for x in request.form.values()]
   features name = ['homepage featured', 'emailer for promotion',
   'op_area', 'cuisine', 'city_code', 'region_code', 'category']
   predicted value = predict values(features name, input features)
   return render template('result.html', no of orders =
  int(predicted value))
def predict values(feature names, feature values):
   # Access IBM Cloud
    # Get API KEY
   API KEY = os.environ.get("API KEY") or None
   # Get MLToken
   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"]
   # Prepare Payload
   payload = {"input data": [{"fields": feature names, "values":
   [feature values]}]}
   response = requests.post(
   'https://us-south.ml.cloud.ibm.com/ml/v4/deployments/7f16a51f-5465-4
   0ad-a4d4-85b37976d269/predictions?version=2022-11-18',
        json=payload,
   headers={'Authorization': 'Bearer ' + mltoken})
   return response.json()['predictions'][0]['values'][0][0]
```