## **IBM Cloud**

## **Create Account and Train the Model**

## IBM CLOUD ACCOUNT CREATION

# ICT Academy SkillsNetwork

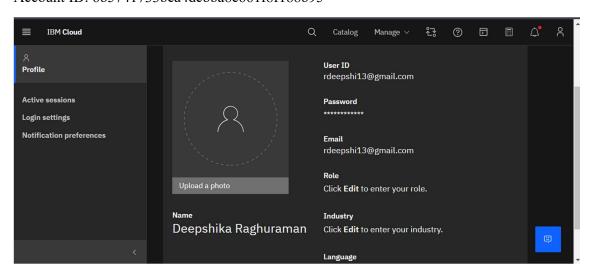
**Account Details** 

Email ID: rdeepshi13@gmail.com

Username: DR13

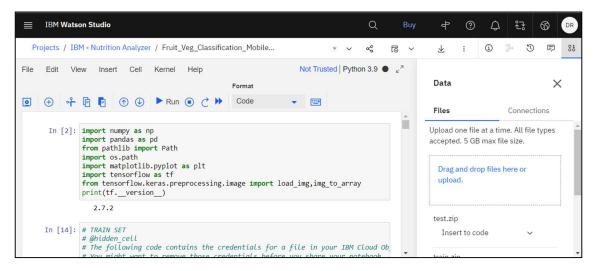
# **IBM CLOUD**

Feature Code: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx11 Account ID: 6b5741733bea4dcbba8e661f8f188b95

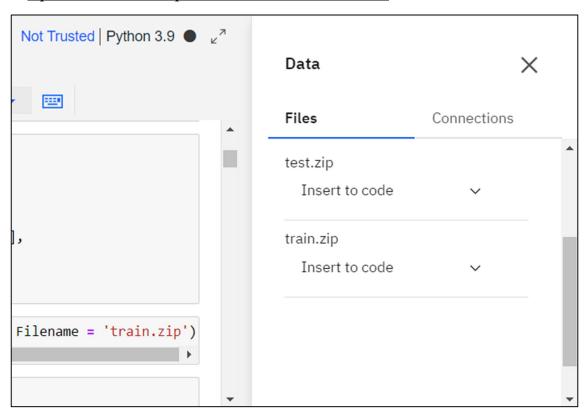


### TRAIN MODEL ON IBM CLOUD

1. Create a new Jupyter project in IBM's Watson Studio.



2. Upload the dataset zip files and extract the contents

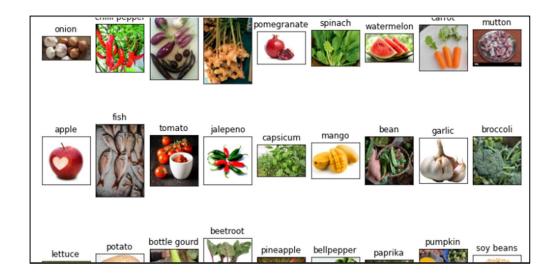


# 3. <u>Train Set and Test Set Images</u>

```
Number of pictures: 4223

Number of different labels: 46

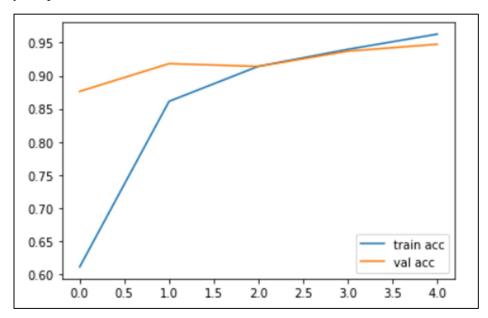
Labels: ['onion' 'chilli pepper' 'eggplant' 'ginger' 'pomegranate' 'spina ch'
    'watermelon' 'carrot' 'mutton' 'apple' 'fish' 'tomato' 'jalepeno'
    'capsicum' 'mango' 'bean' 'garlic' 'broccoli' 'lettuce' 'potato'
    'bottle gourd' 'beetroot' 'pineapple' 'bellpepper' 'paprika' 'pumpkin'
    'soy beans' 'peas' 'cucumber' 'turnip' 'egg' 'raddish' 'lemon' 'pear'
    'chicken' 'orange' 'cauliflower' 'corn' 'bitter gourd' 'kiwi' 'papaya'
    'banana' 'cabbage' 'sweetcorn' 'sweetpotato' 'grapes']
```



### 4. Build the model

# 5. Evaluate the Model

## Accuracy Graph



### **Confusion Matrix**

```
array([[ 8, 0, 0, ..., 0, 0, 0],
        [ 0, 7, 0, ..., 0, 0, 0],
        [ 0, 0, 10, ..., 0, 0, 0],
        ...,
        [ 0, 0, 0, ..., 9, 0, 0],
        [ 0, 0, 0, ..., 0, 10, 0],
        [ 0, 0, 0, ..., 0, 0, 10]])
```

### **Evaluation Metrics**

PRECISION SCORE : 0.952140452140452 RECALL SCORE : 0.9475890985324947 F1 SCORE : 0.9454436033097522

