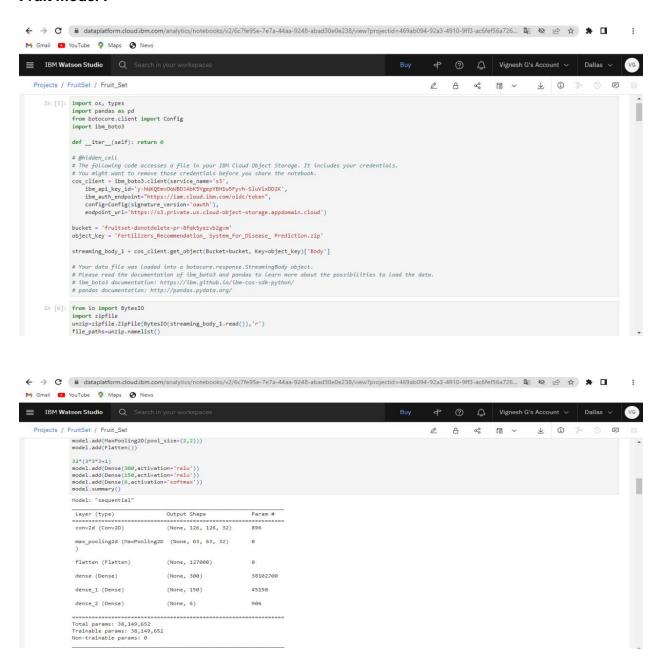
## **Train The Model On IBM**

Team ID	PNT2022TMID30319
Project Name	Fertilizers Recommendation System For Disease Prediction

In IBM cloud using IBM watson machine learning service to train the both fruit and vegetable.

## Fruit model:



```
← 🗦 🖰 🔒 dataplatform.cloud.ibm.com/analytics/notebooks/v2/6c7fe95e-7e7a-44aa-9248-abad30e0e238/view?projectid=469ab094-92a3-4910-9ff3-ac6fef56a726... 🔞 🔯 😥 🖈 🗖
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                                                                                                                                                                             А
                   cos_client = ibm_boto3.client(service_name='s3',
   ibm_api_key_id='y-hMkQEmvOokB0JAbKEYgepYBH1U5Fyvh-SluVlxDD2K',
   ibm_auth_endpoint="https://iam.cloud.ibm.com/oidc/token",
                        config=Config(signature_version='oauth'),
endpoint_url='https://s3.private.us.cloud-object-storage.appdomain.cloud')
                   bucket = 'fruitset-donotdelete-pr-8fqk5yezvb2gvm'
object_key = '01a8cc9f-074a-4866-87c8-bb5a9e3895b4__RS_LB 2968.JPG'
                   streaming_body_2 = cos_client.get_object(Bucket=bucket, Key=object_key)['Body']
                   # Your data file was loaded into a botocore.response.StreamingBody object.
                   # Please red the documentation of ibm_boto3 and pandas to learn more about the possibilities to load the data.
# ibm_boto3 documentation: https://ibm.github.io/ibm-cos-sdk-python/
# pandas documentation: https://pandas.pydata.org/
      In [87]: from PIL import Image
  img=Image.open(streaming_body_2)
  target_size=(128,128)
                   img-img.resize(target_size)
import numpy as np
x=image.img_to_array(img)
x=np.expand_dims(x,axis=0)
                   pred=model.predict(x)
                   y=np.argmax(pred,axis=1)
                             'Apple__Black_rot','Apple__healthy','Corn_(maize)__Northern_Leaf_Blight','Corn_(maize)__healthy','Peach__Bacterial_spot','Peach__healthy']
      Out[87]: 'Apple healthy'
```

## **Vegetable Model:**

