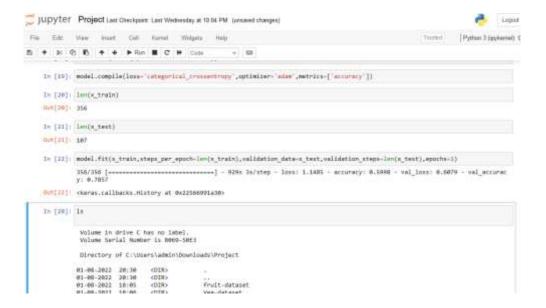
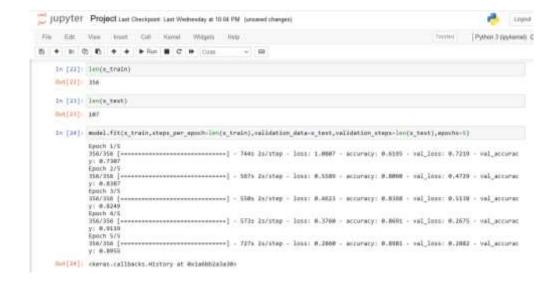


Figure 1 Python coding for plant disease detection in jupyter notebook



(a) Single epoch



(b) five epochs

Figure 2 Accuracy of tested dataset by CNN

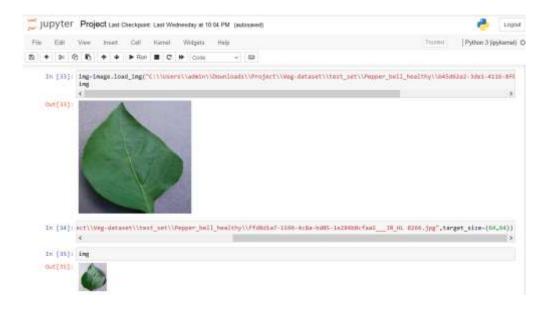


Figure 3 Original and reframed image in the model

Figure 4 Image array structure built in python coding

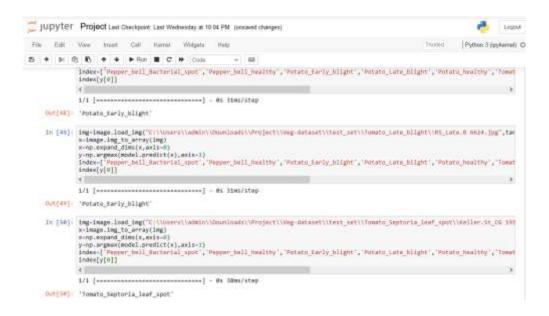


Figure 5 Test results for plant disease detection using CNN



Figure 6 Coding for fruit disease detection using CNN

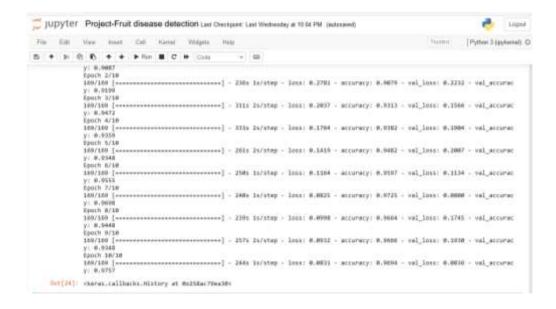


Figure 7 Training results for fruit disease detection using CNN

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Figure 8 Test results 1 for fruit disease detection using CNN



Figure 9 Test results 2 for fruit disease detection using CNN

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5 + 91 6 5 + + PRIN # C # Code
    In [79]: software_space_uld-client.software_specifications.gut_uld_by_name('towsorflow_rtls.1-py).0')
     In [00]: software_space_uld
    Dut[40]| "acd9c798-6974-5d2f-a657-ce85e965dfad"
     a Fruits.HS
     10 [82]: model_details-client.repusitory.sture_model(model-"Project.tgs",
                                                              meta_propi-

client.repository.ModelMetaNames.NAME:"Fruit disease detection",

client.repository.ModelMetaNames.YPM: "compository 2.7",

client.repository.ModelMetaNames.SOFTHAME_SPEC_UED:software_space_uic
                                                              33
     In [46]: model_id-client.repository.get_model_id(model_details)
     Out[67]) "Och?##8d-879d-4119-892f-68#80000#6614"
     In [68]: client.repository.download(model_id, 'Fruits.ter.gb')
               Successfully saved model content to file: '#ruits.tar.gb'
     Gut[GEE]) "C:\\Users\\admin\\Downloads\\Project/Fruits.tar.gh"
```

Figure 10 IBM deployment in local system

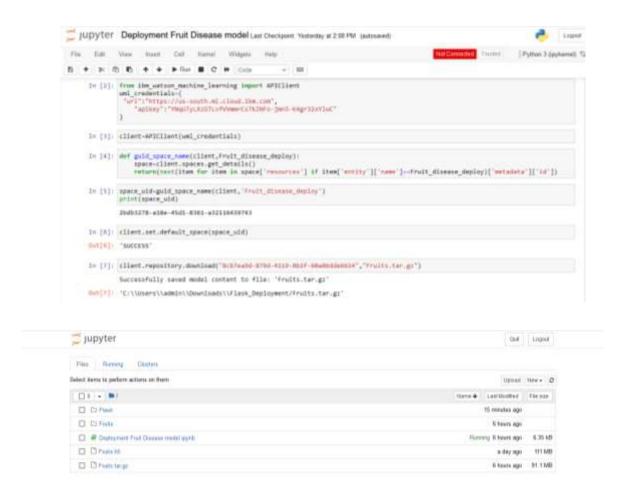


Figure 11 Flask deployment in local system

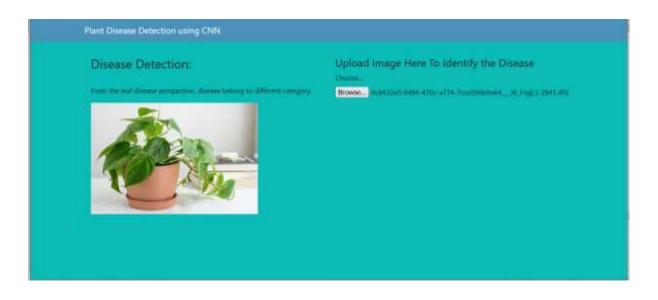


Figure 12 Html deployment of plant disease detection using CNN