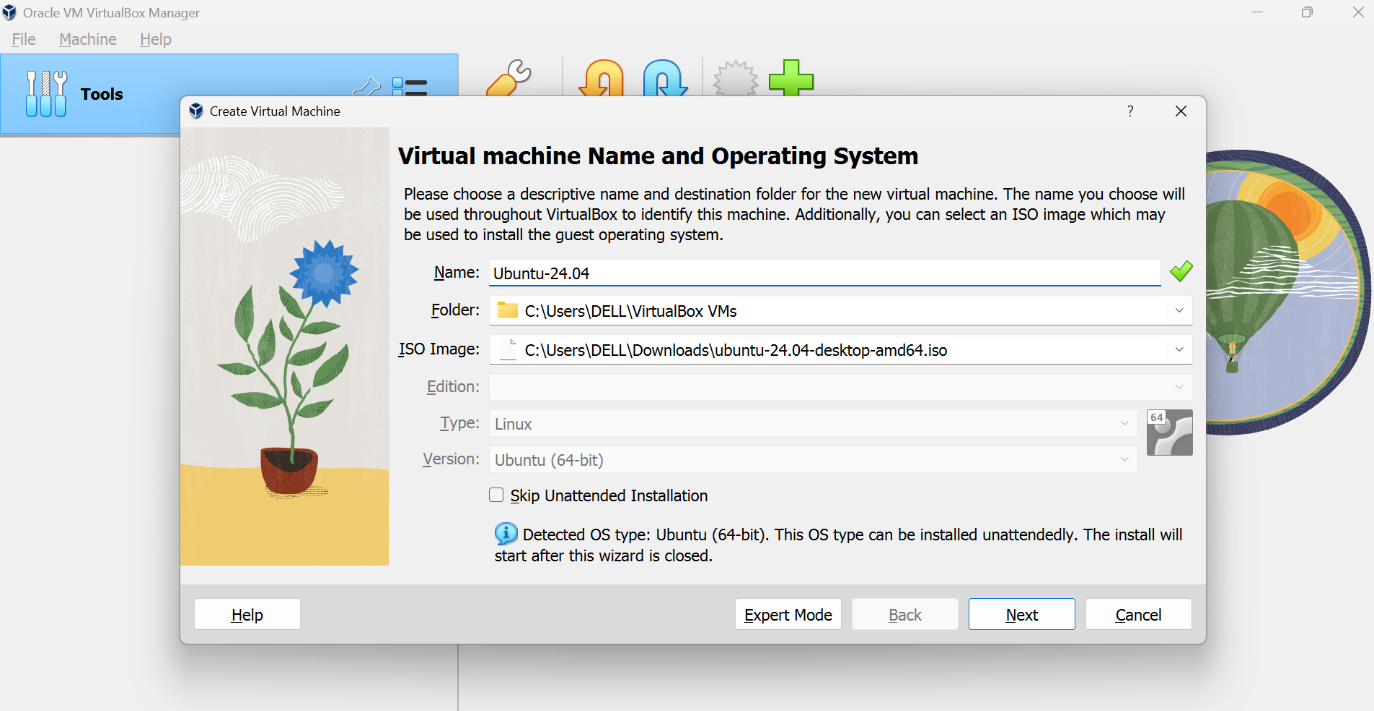
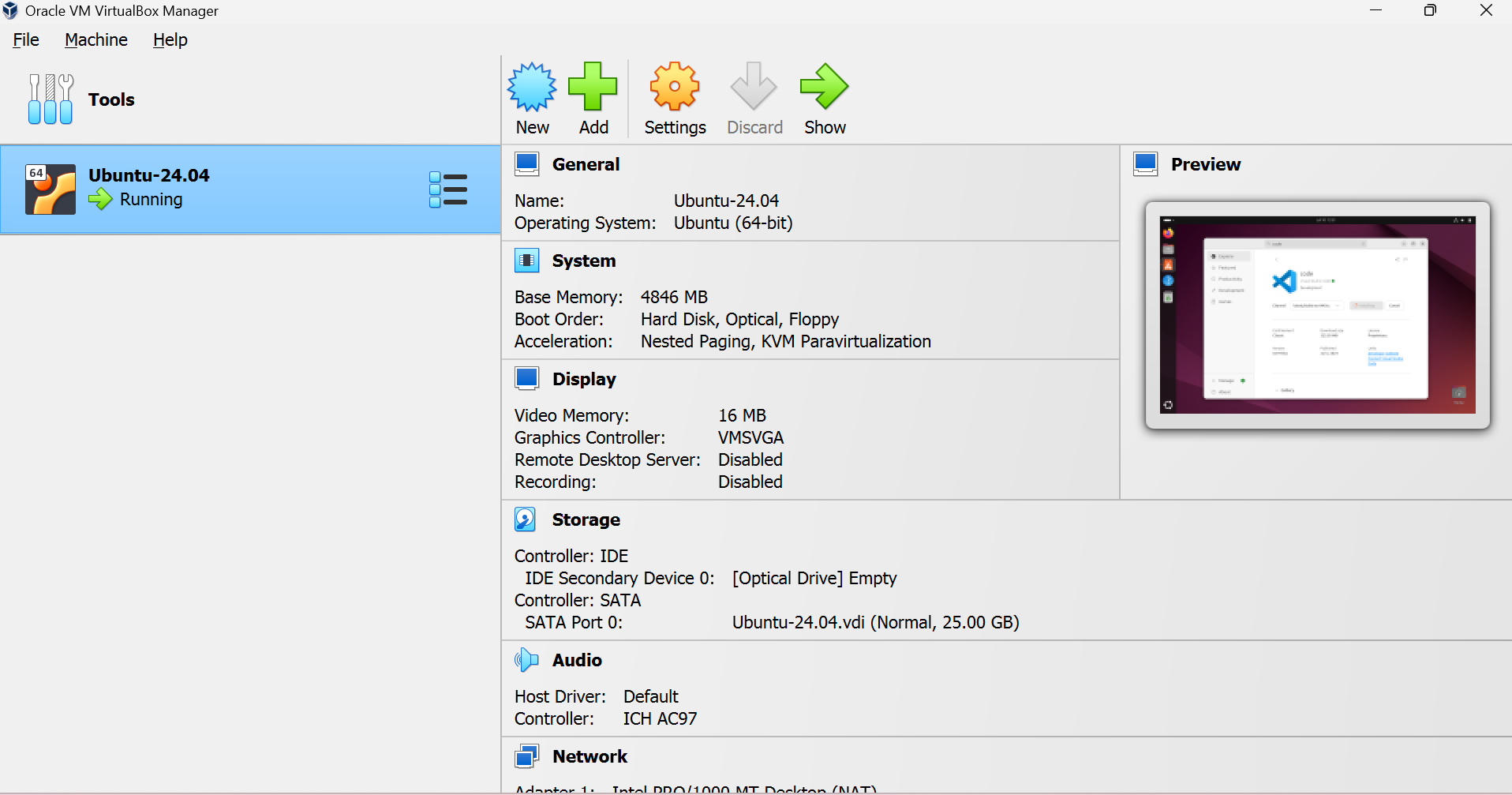
W11 Graded Assignment

**Objective:**

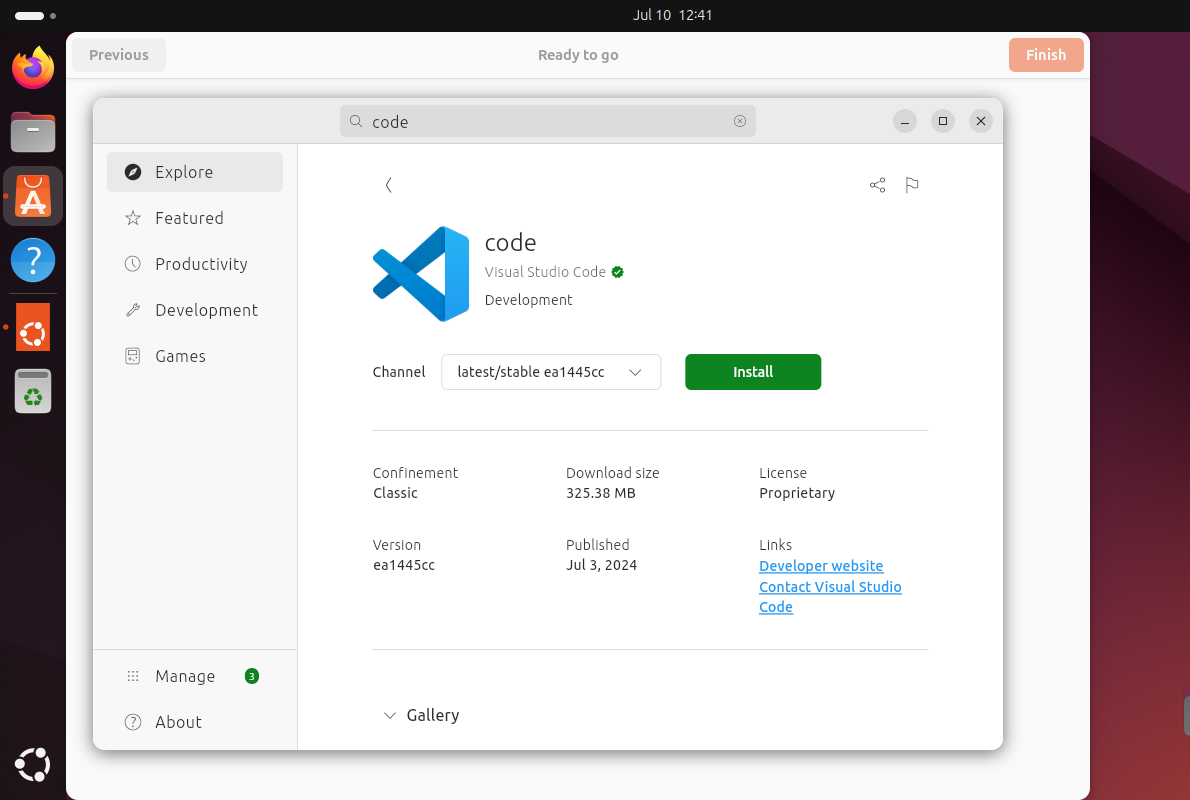
Implementing a microservice using the Python Flask framework on an Ubuntu virtual machine to serve a machine learning prediction model.

1.Host a Ubuntu Virtual Machine using Oracle VM Virtual Box.

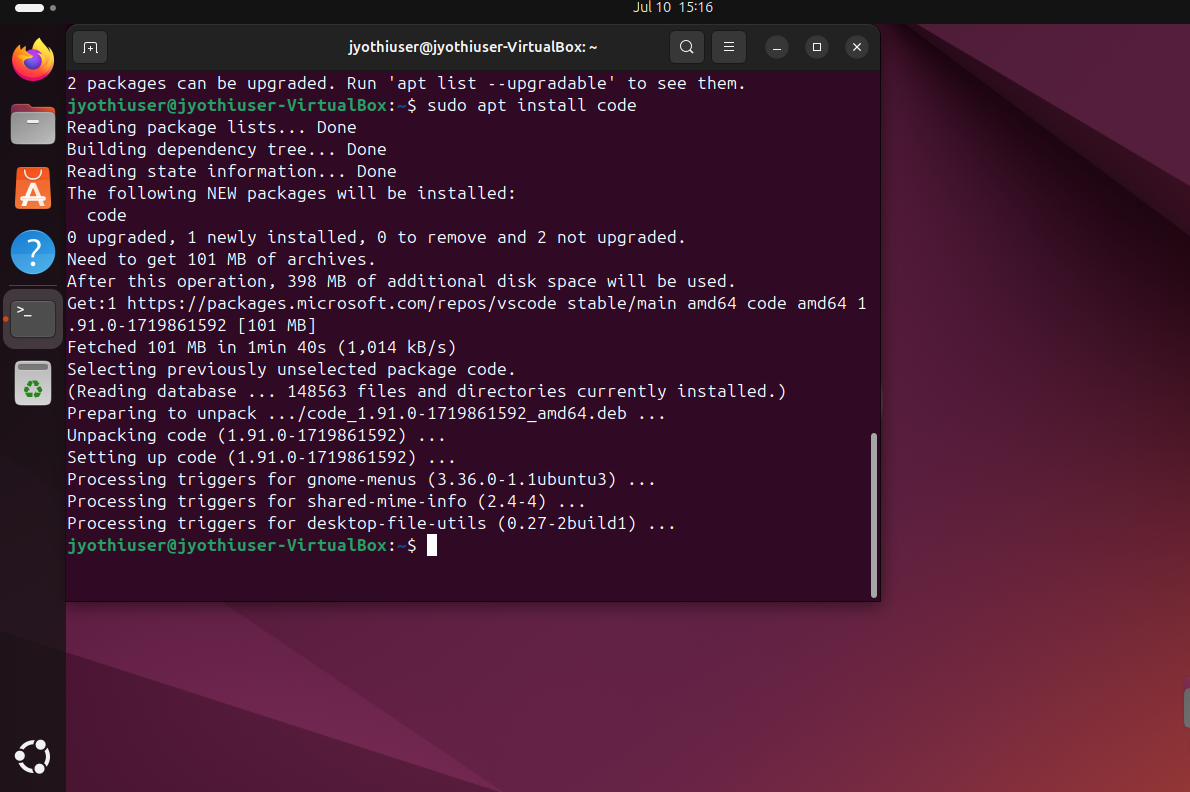


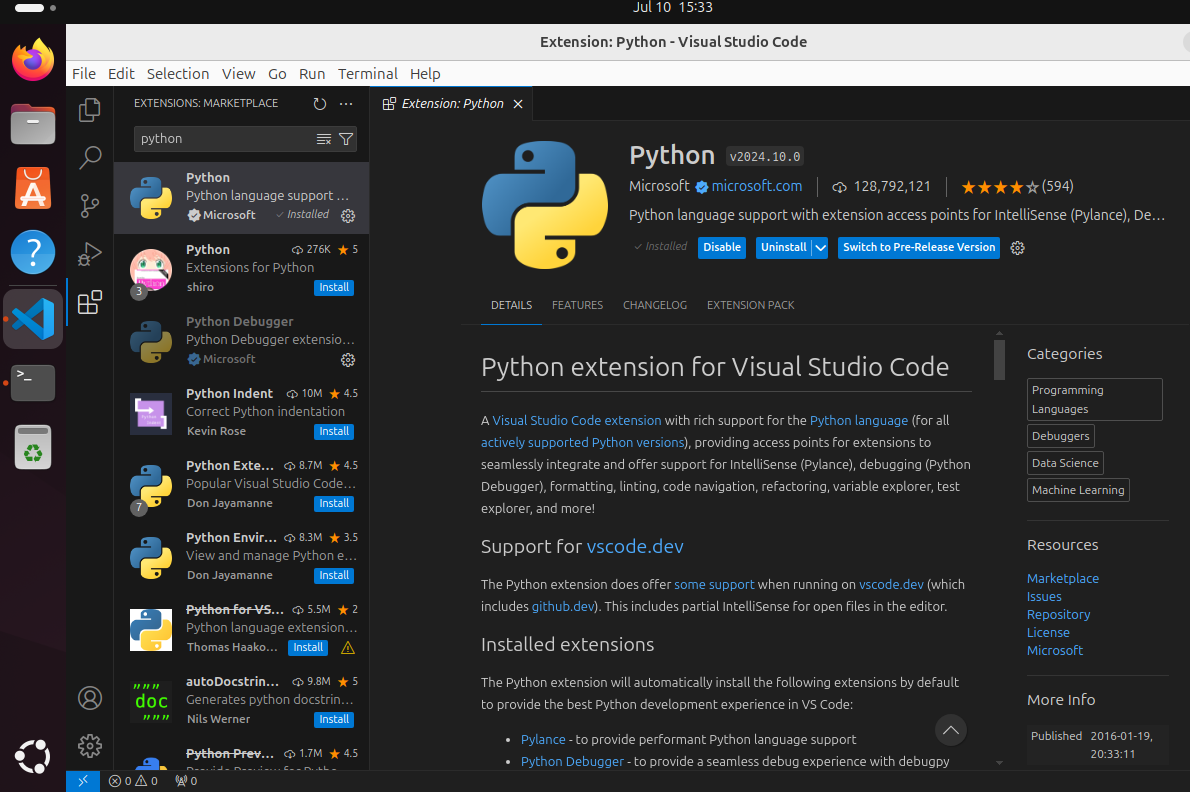


1. Set up Visual Studio code on Ubuntu VM

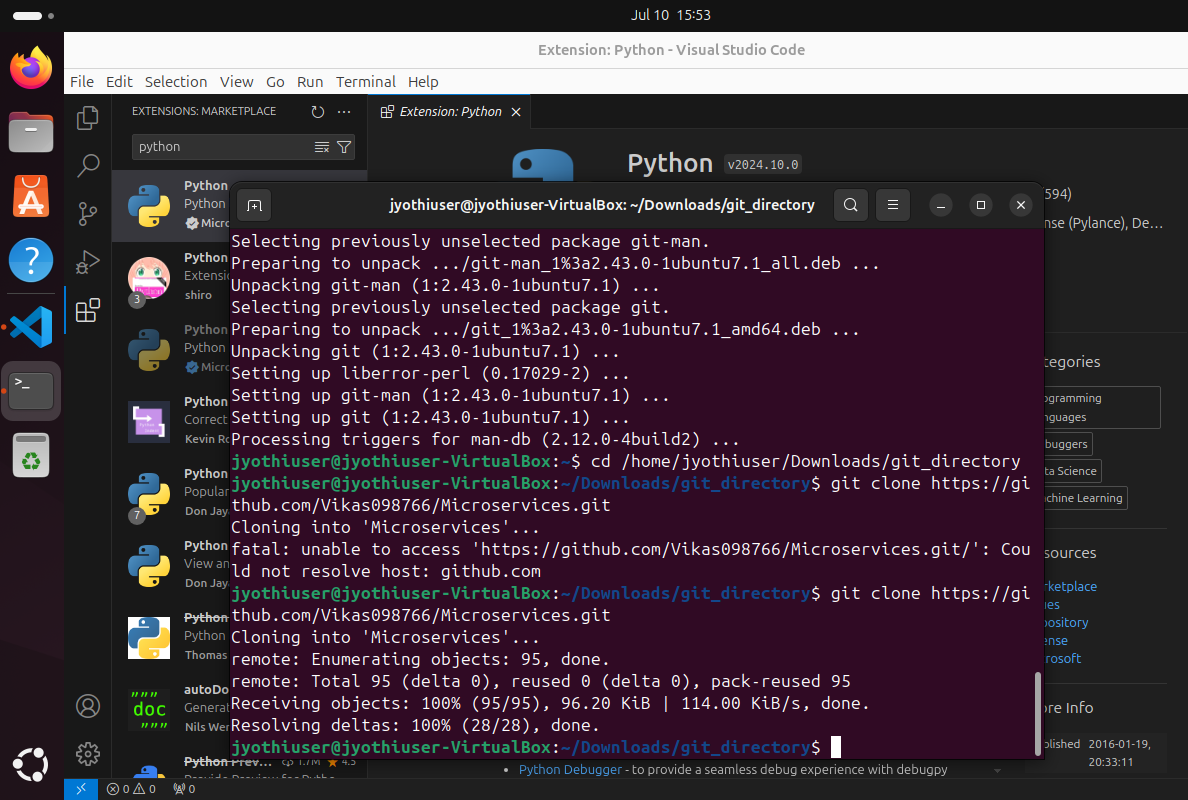


3.Set up Python

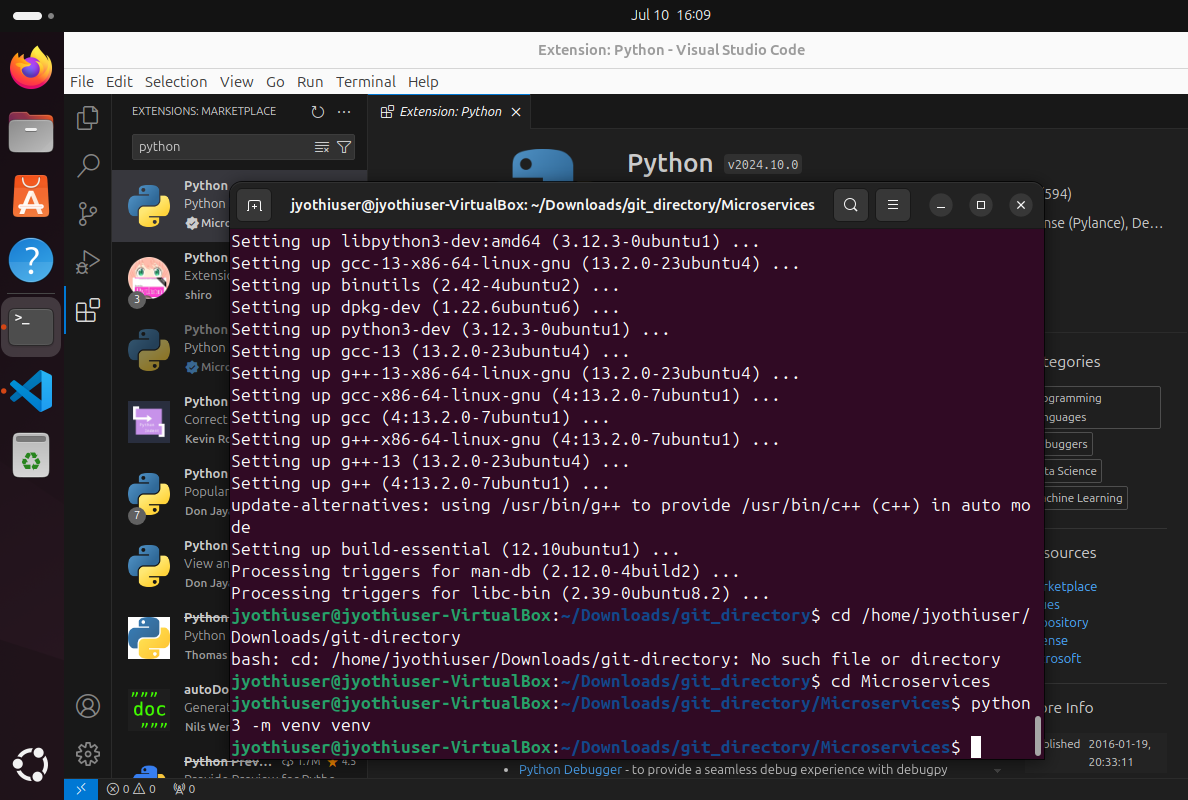




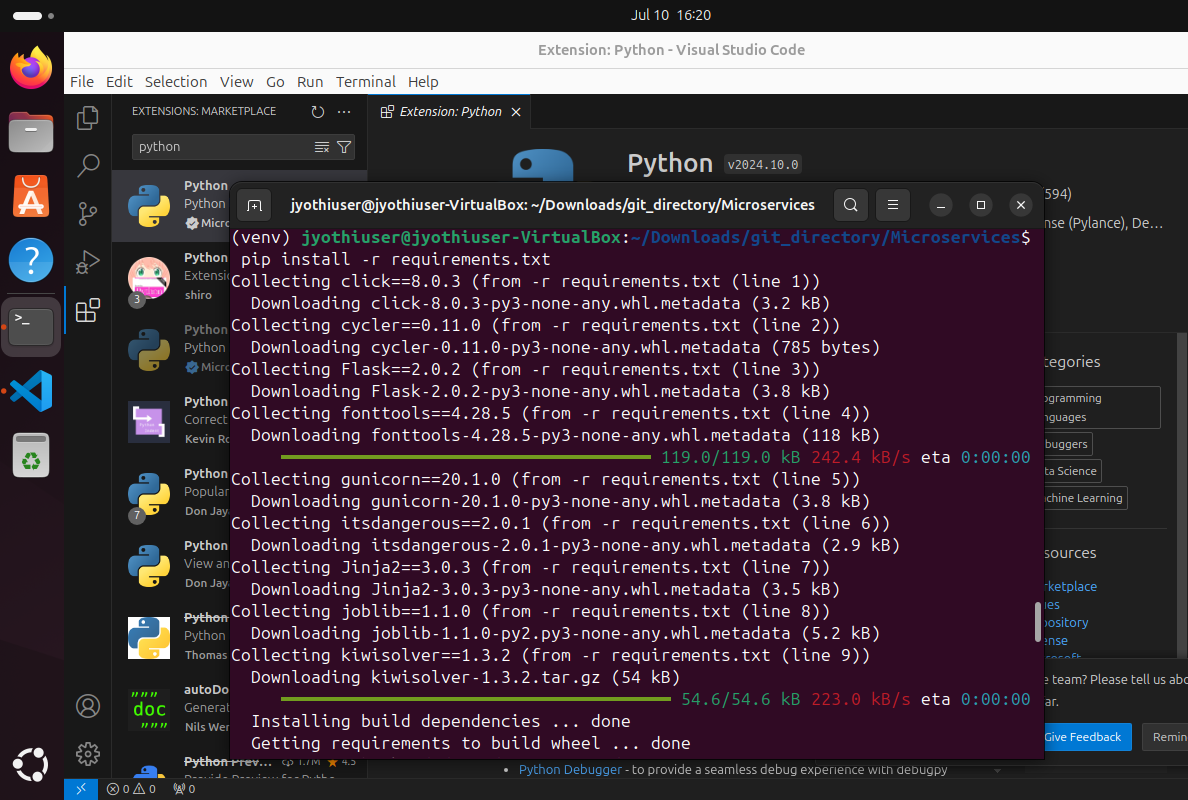
4.Clone Git Repository <https://github.com/Vikas098766/Microservices.git>

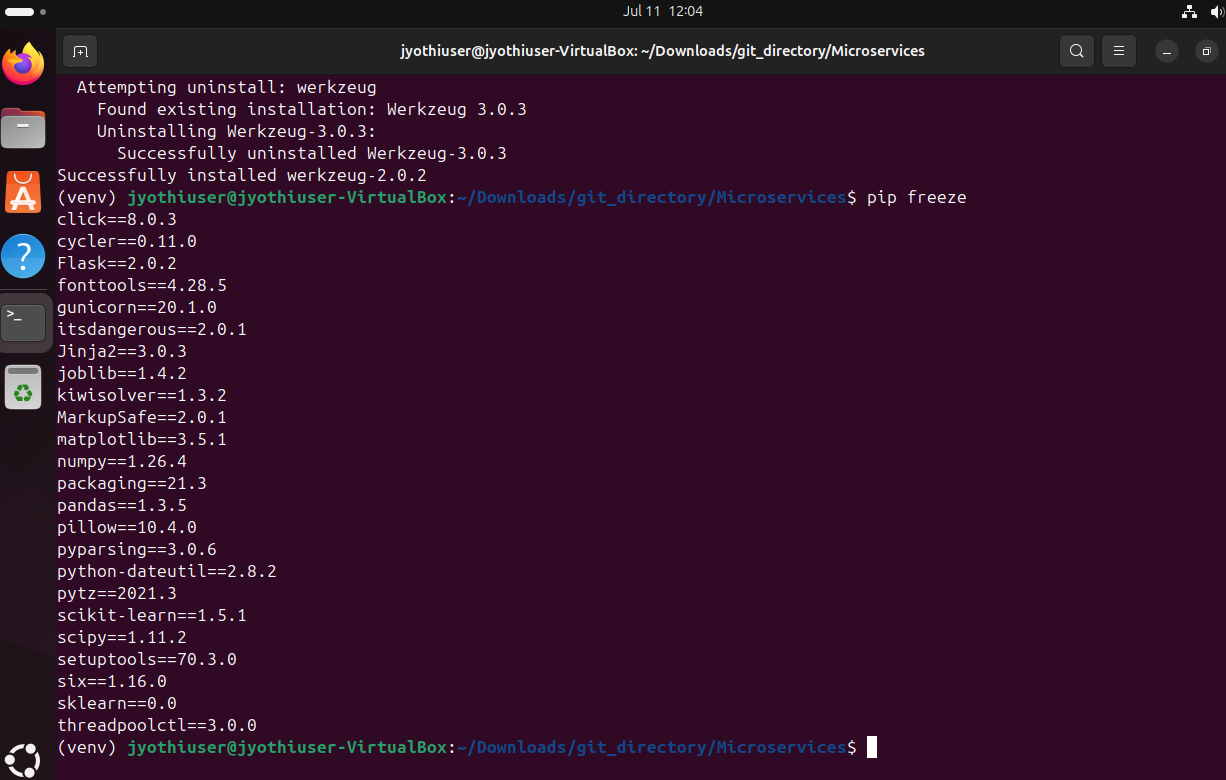


5.Create a Virtual Environment.

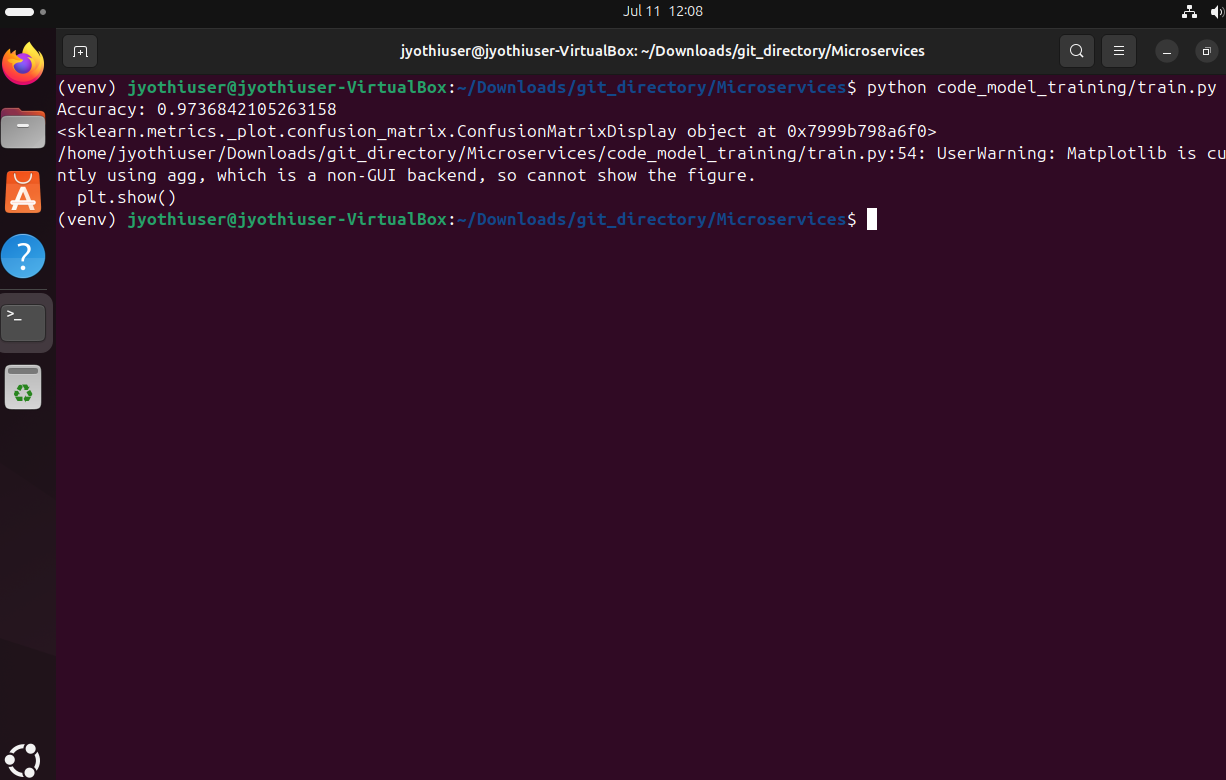


6. Install the dependencies from requirements.txt file.

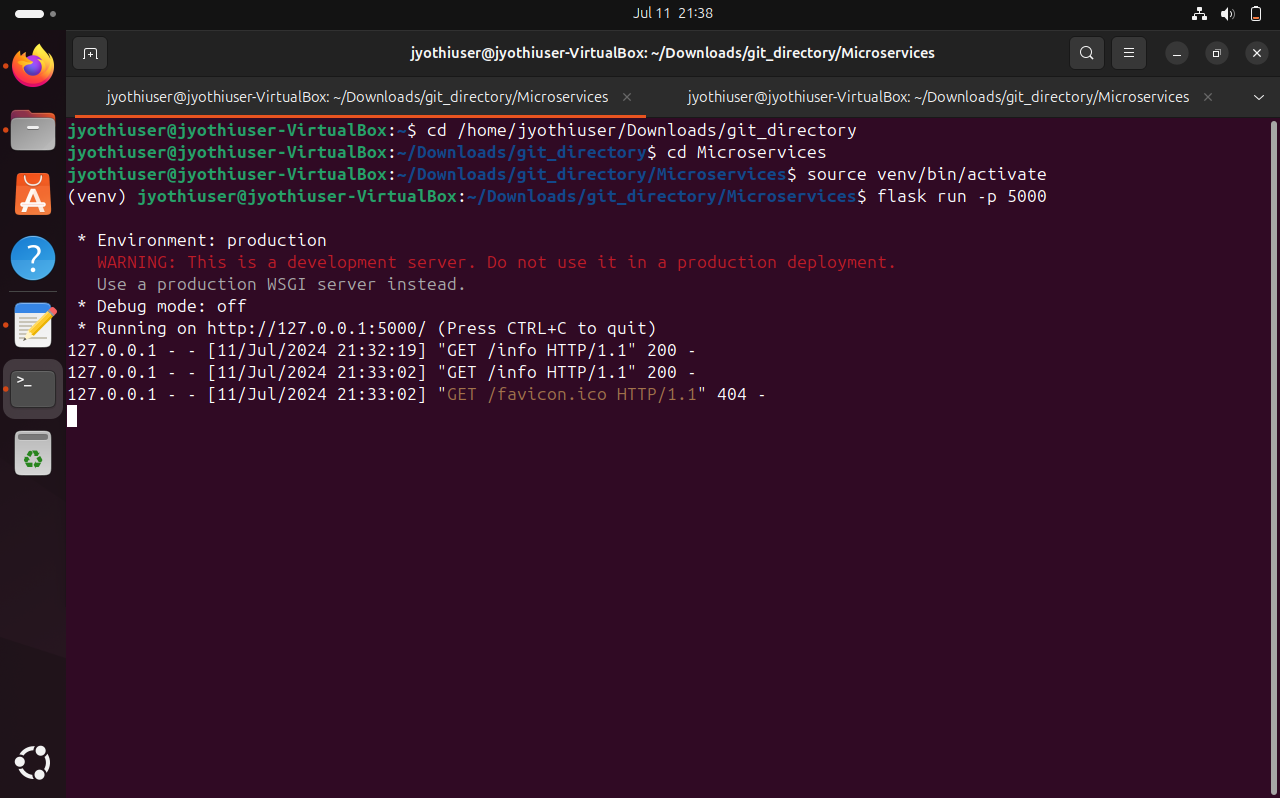


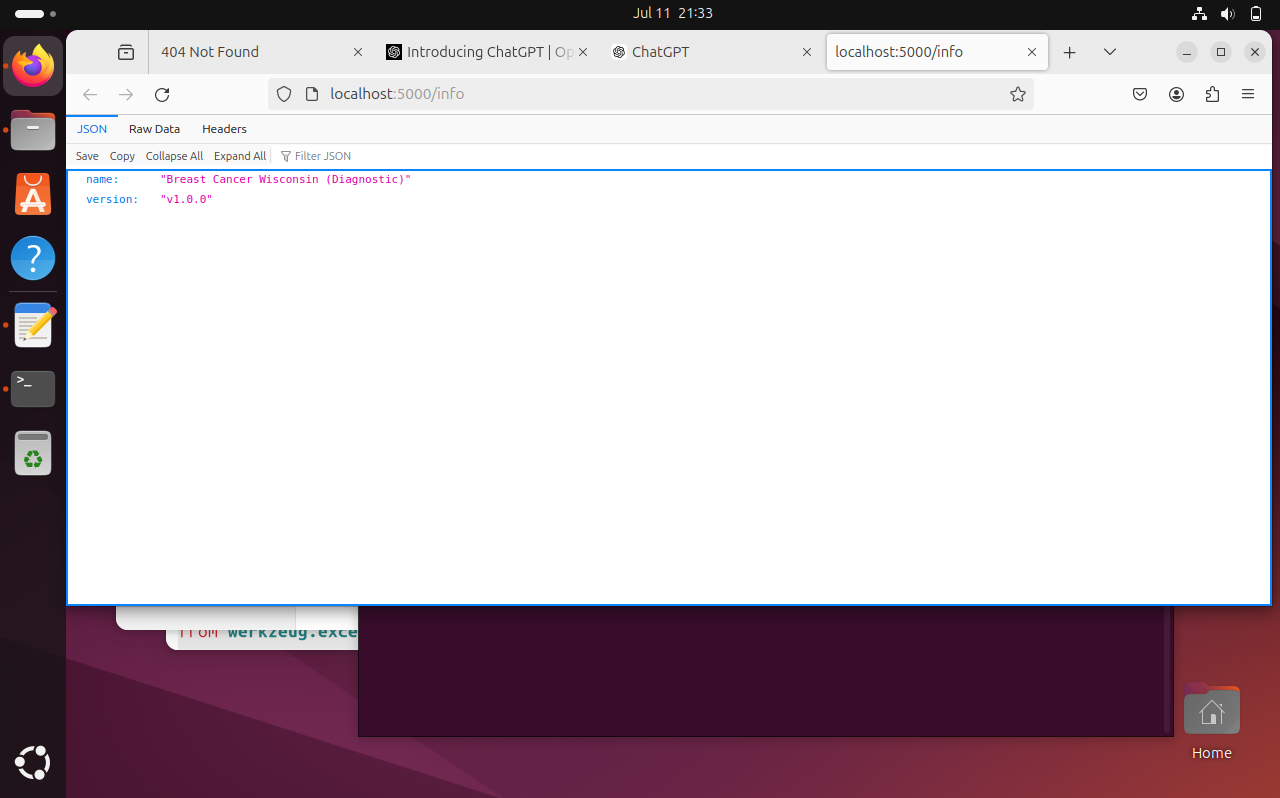


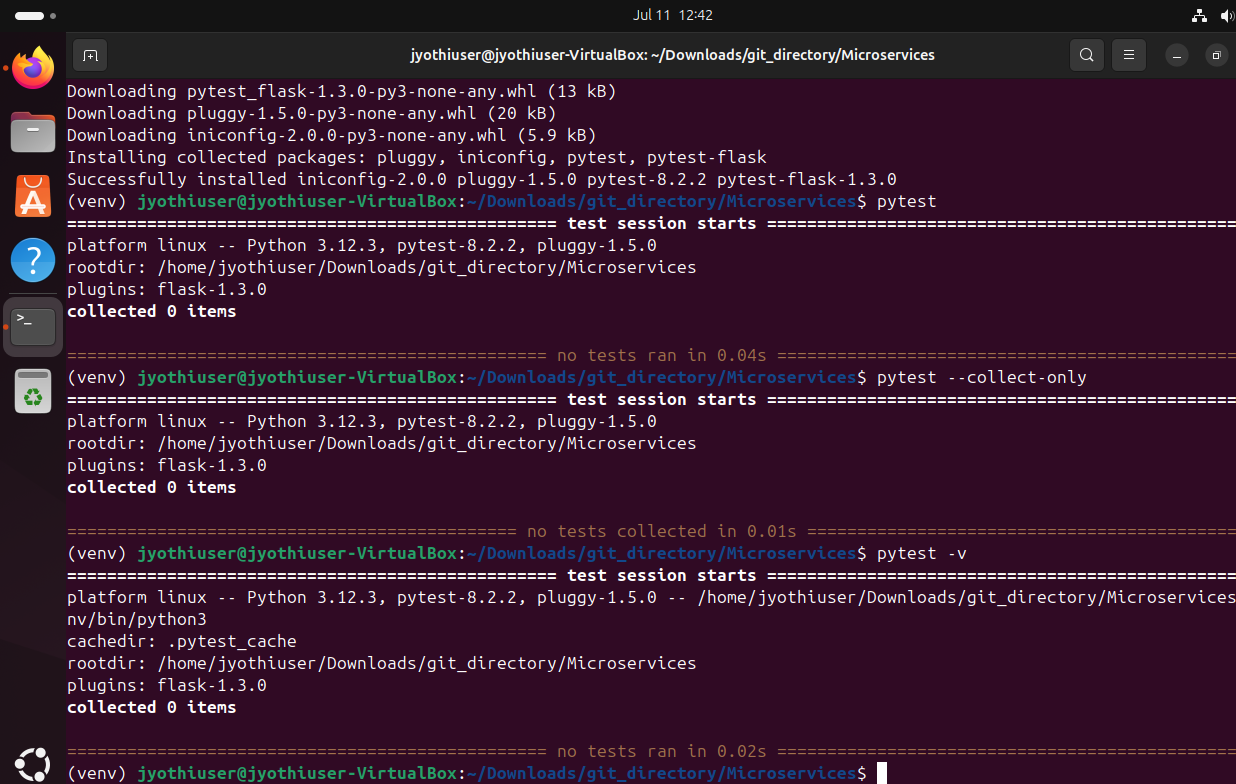
7. Train and save the model



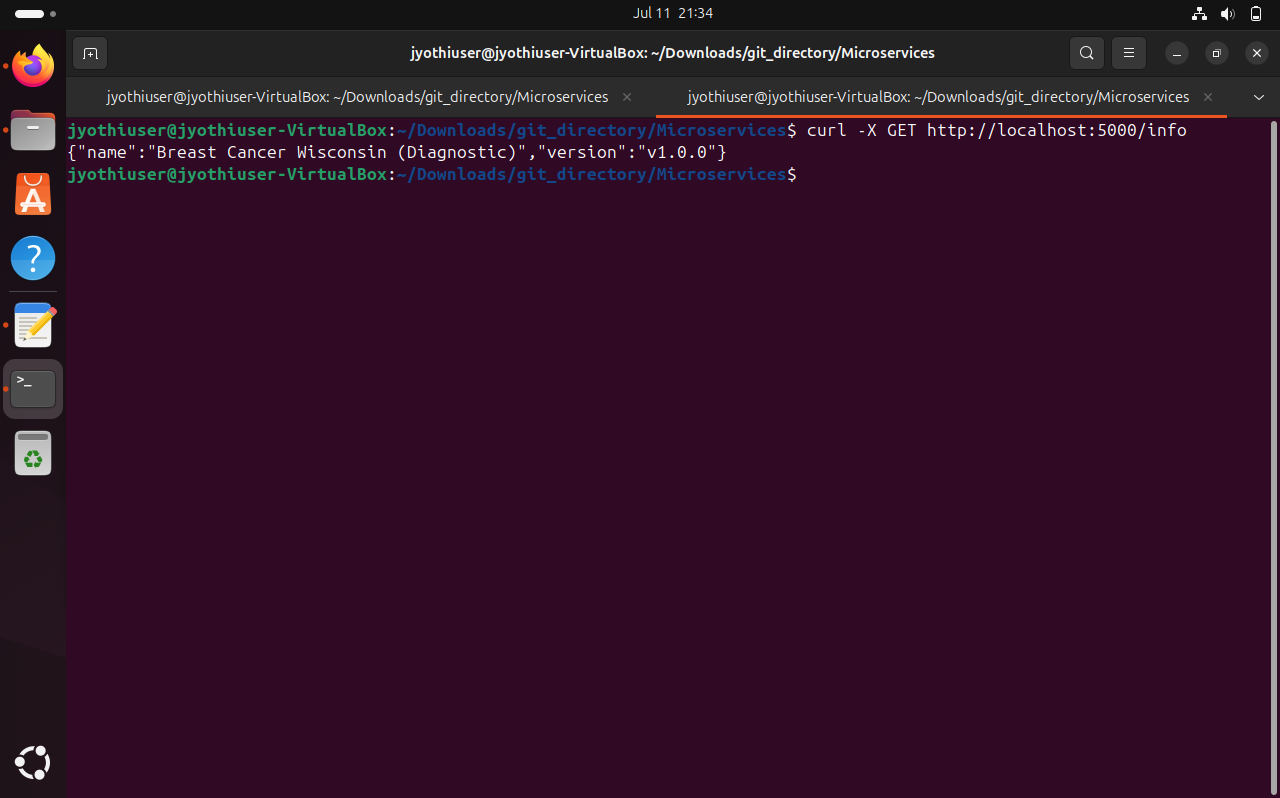
8. Test the Flask web application

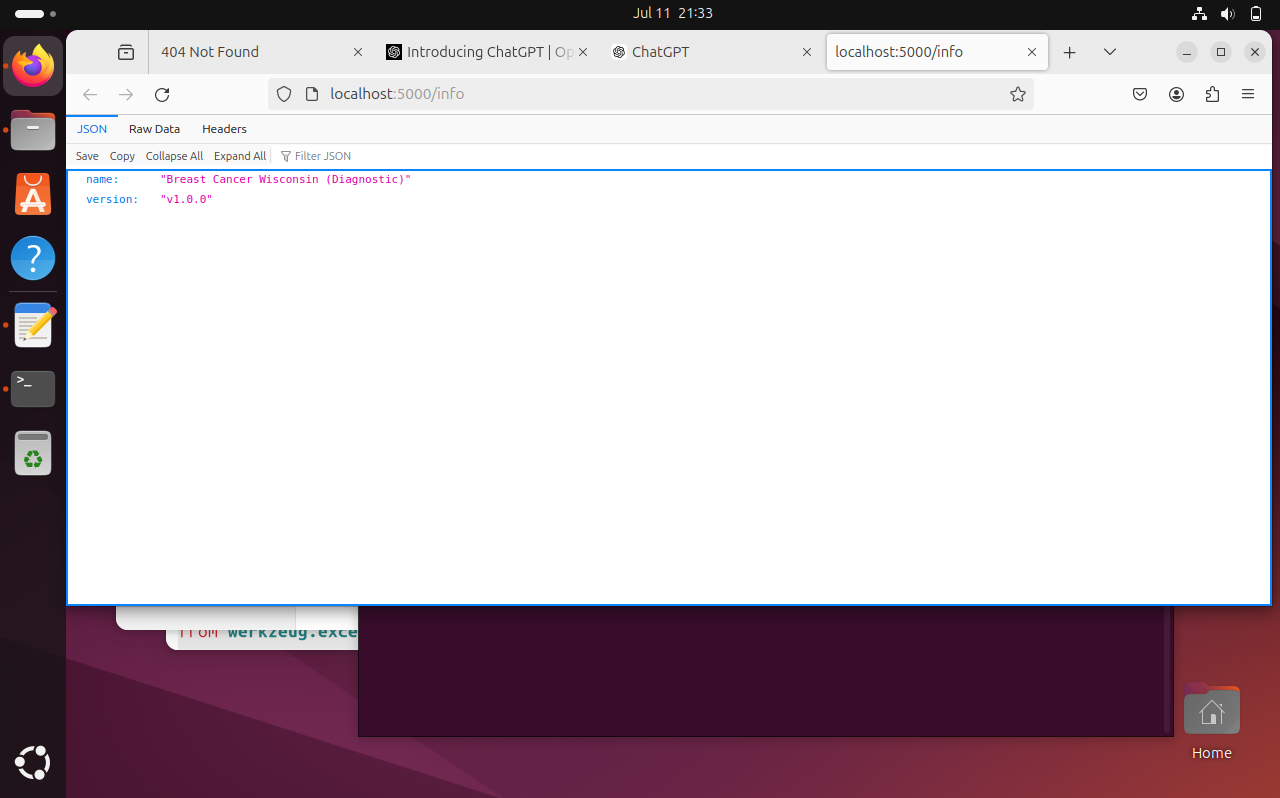


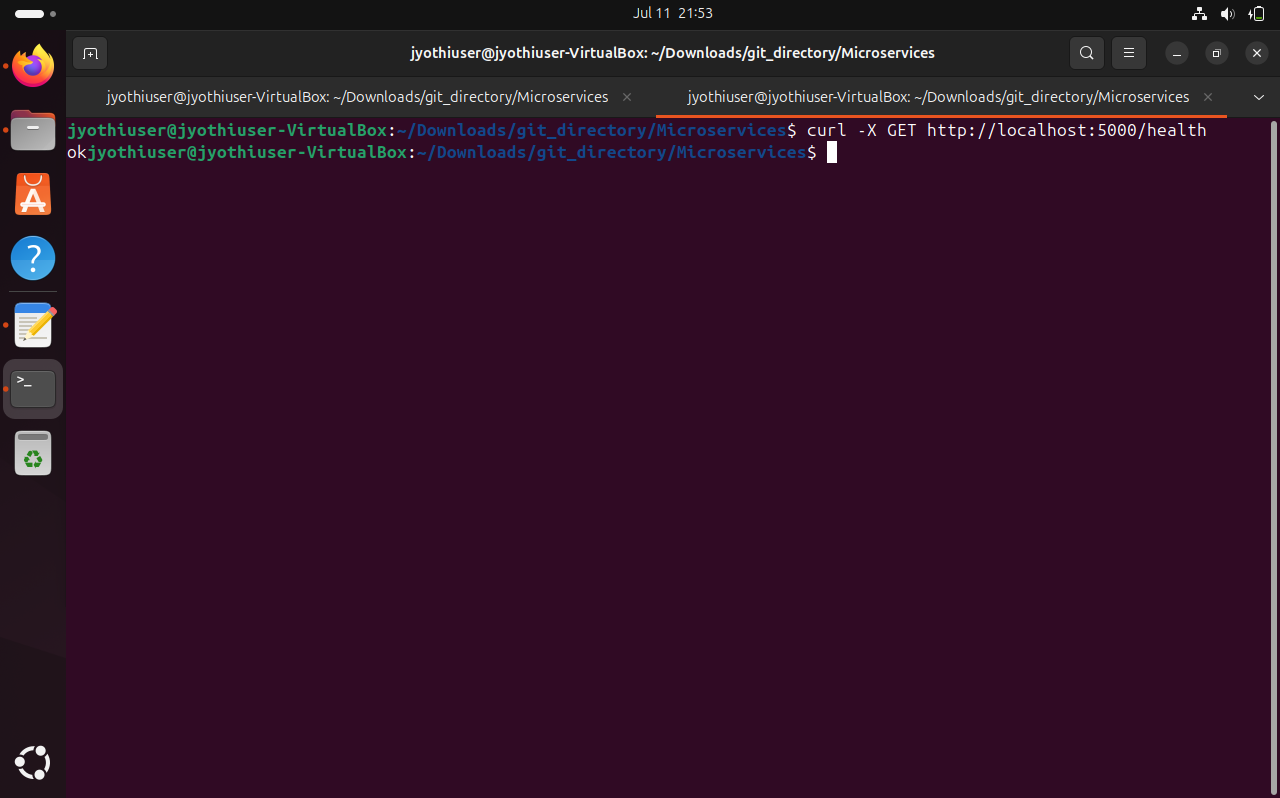


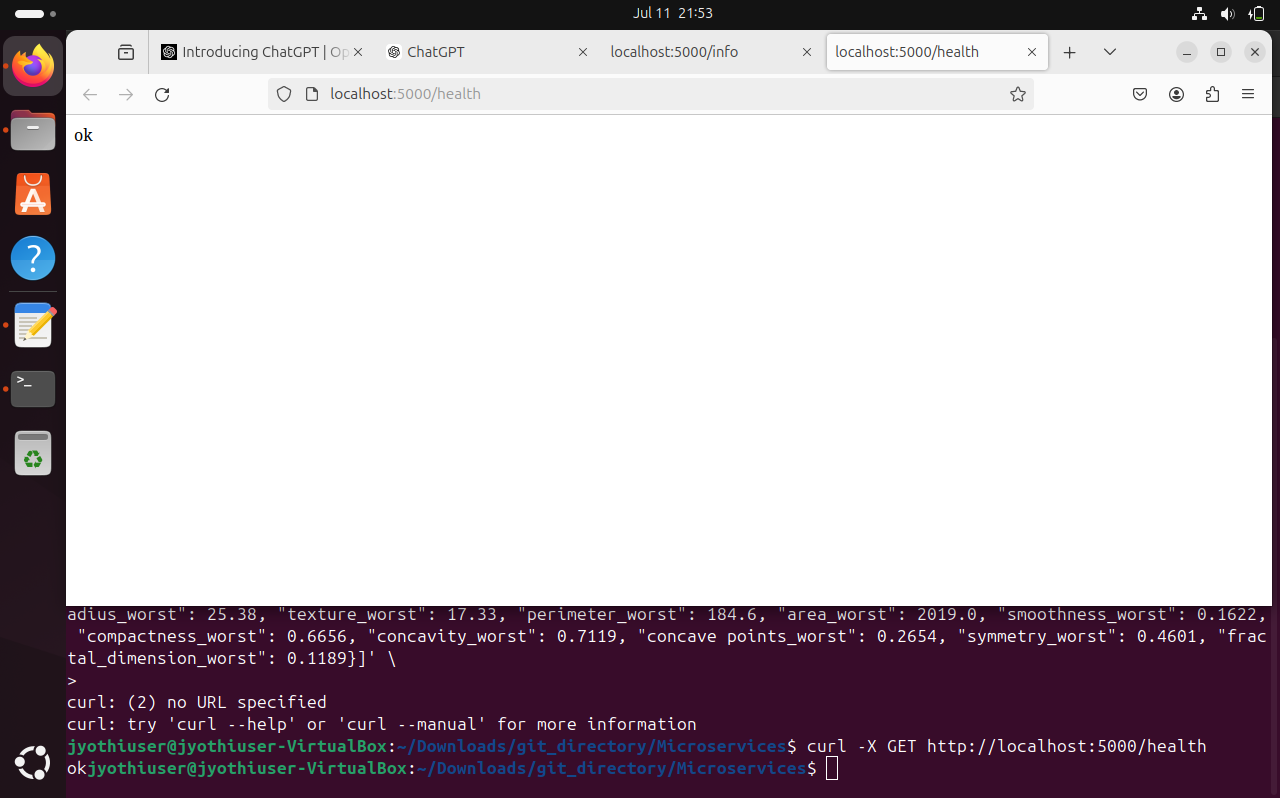


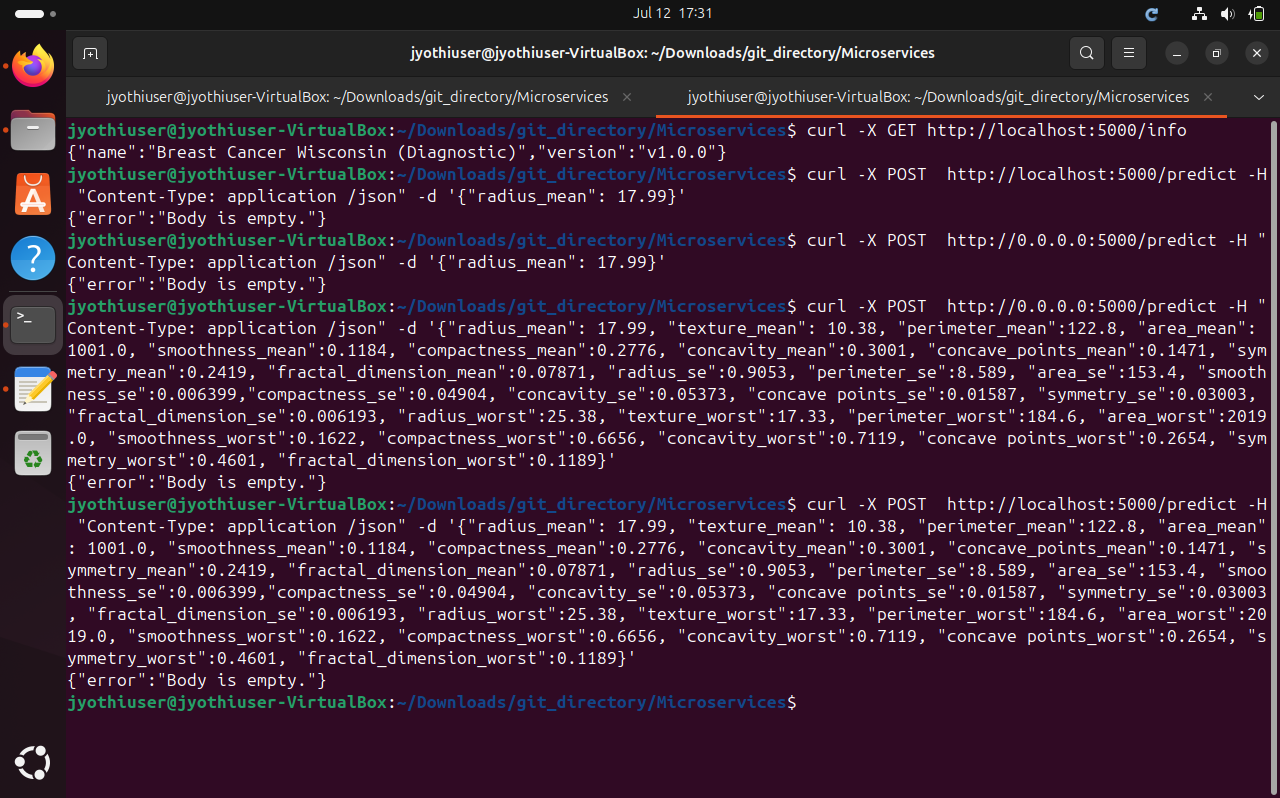
9. Test the application and make predictions using the example calls available in the folder/tests



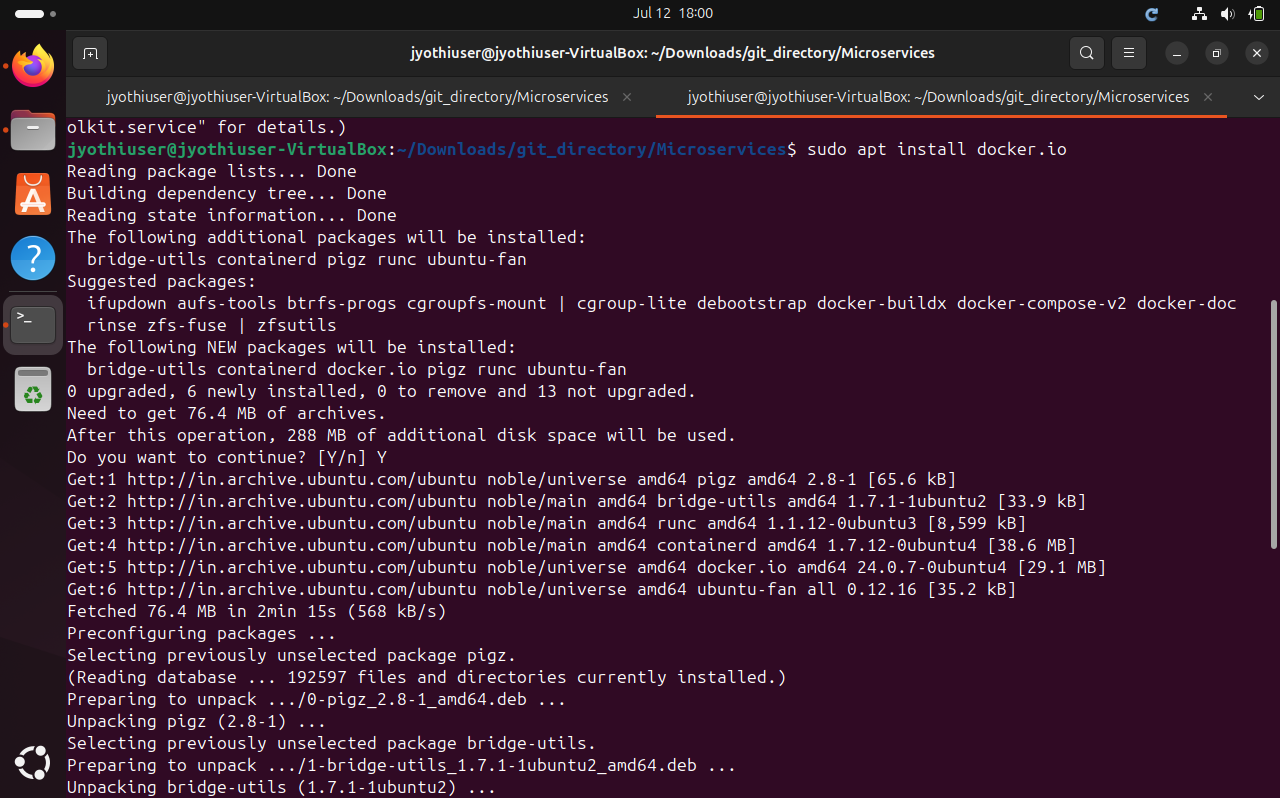


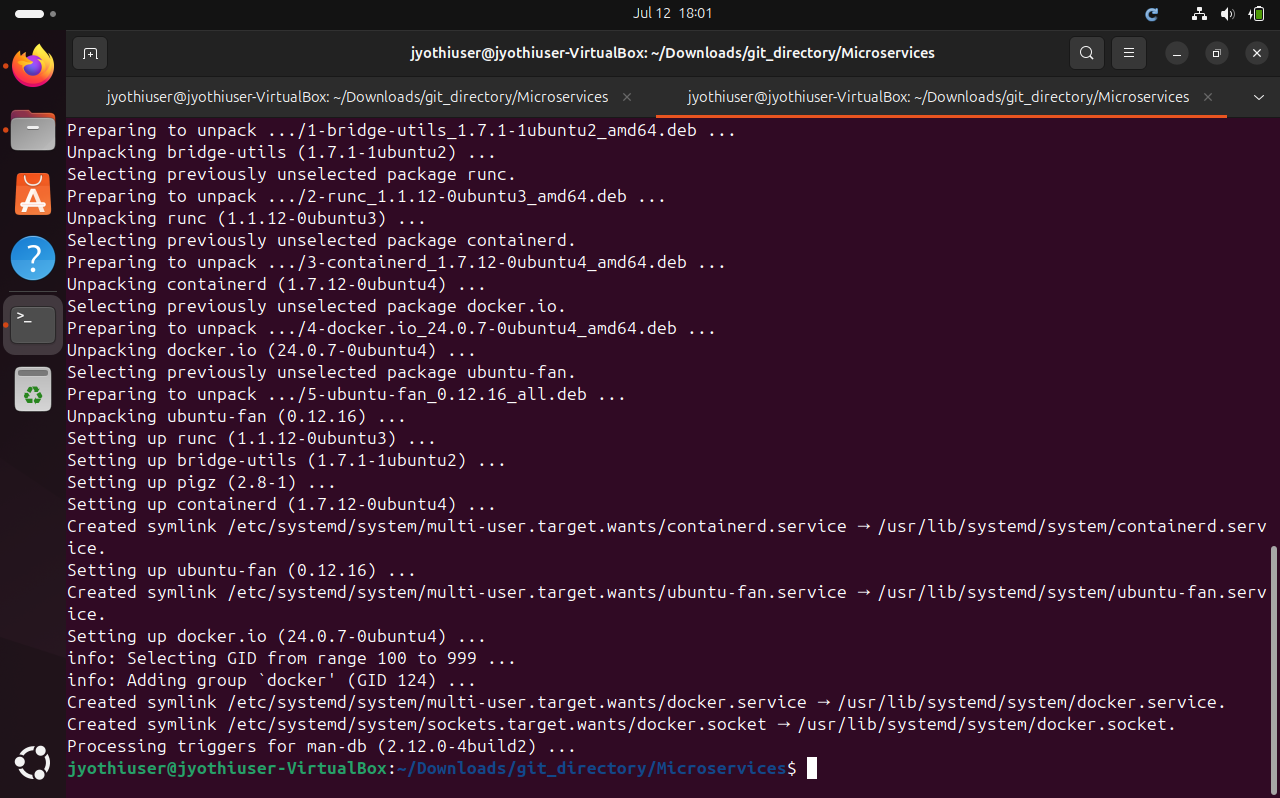


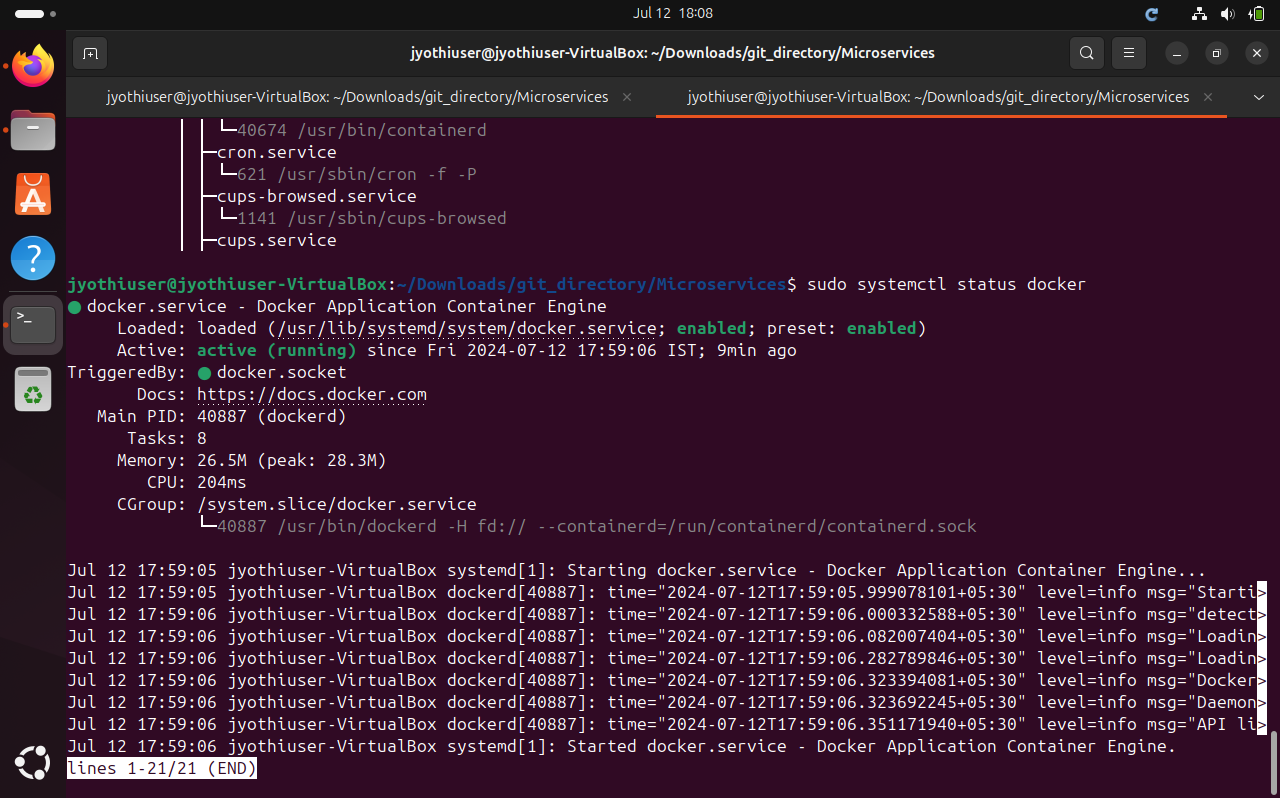


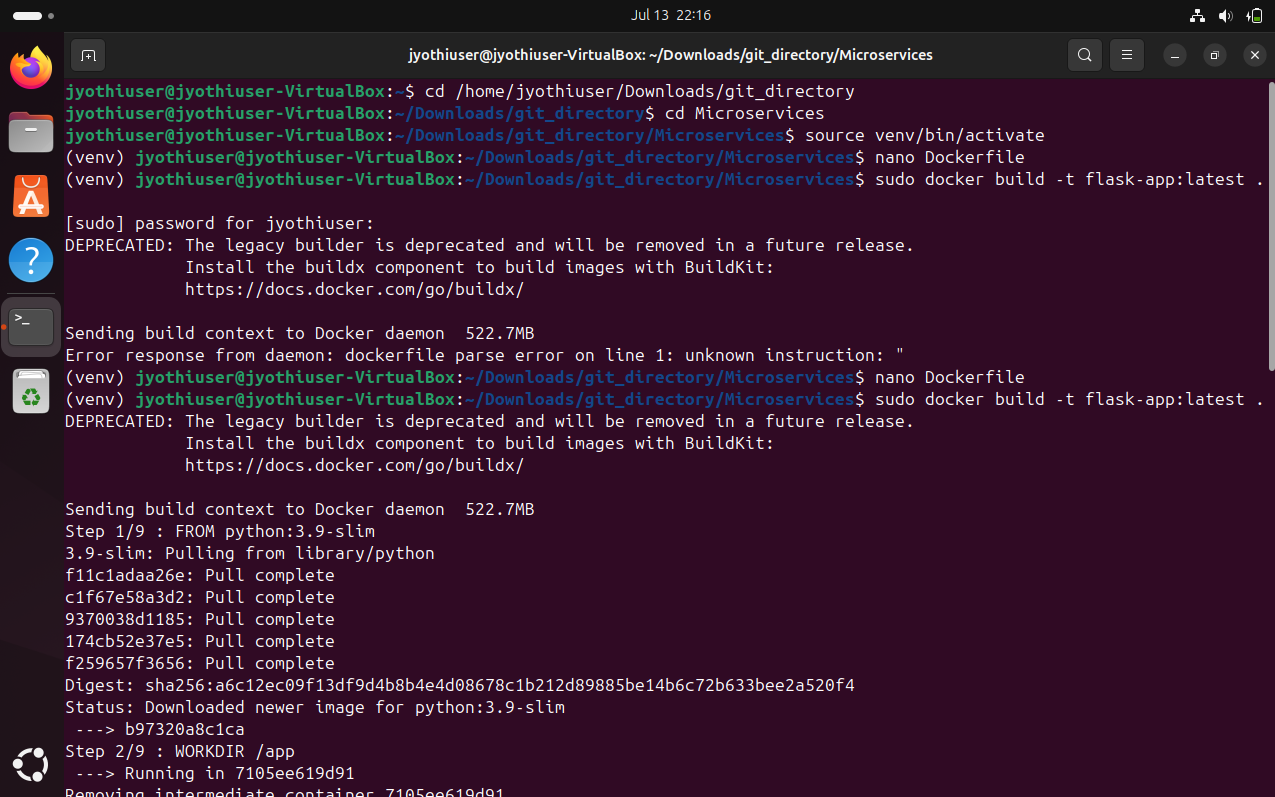


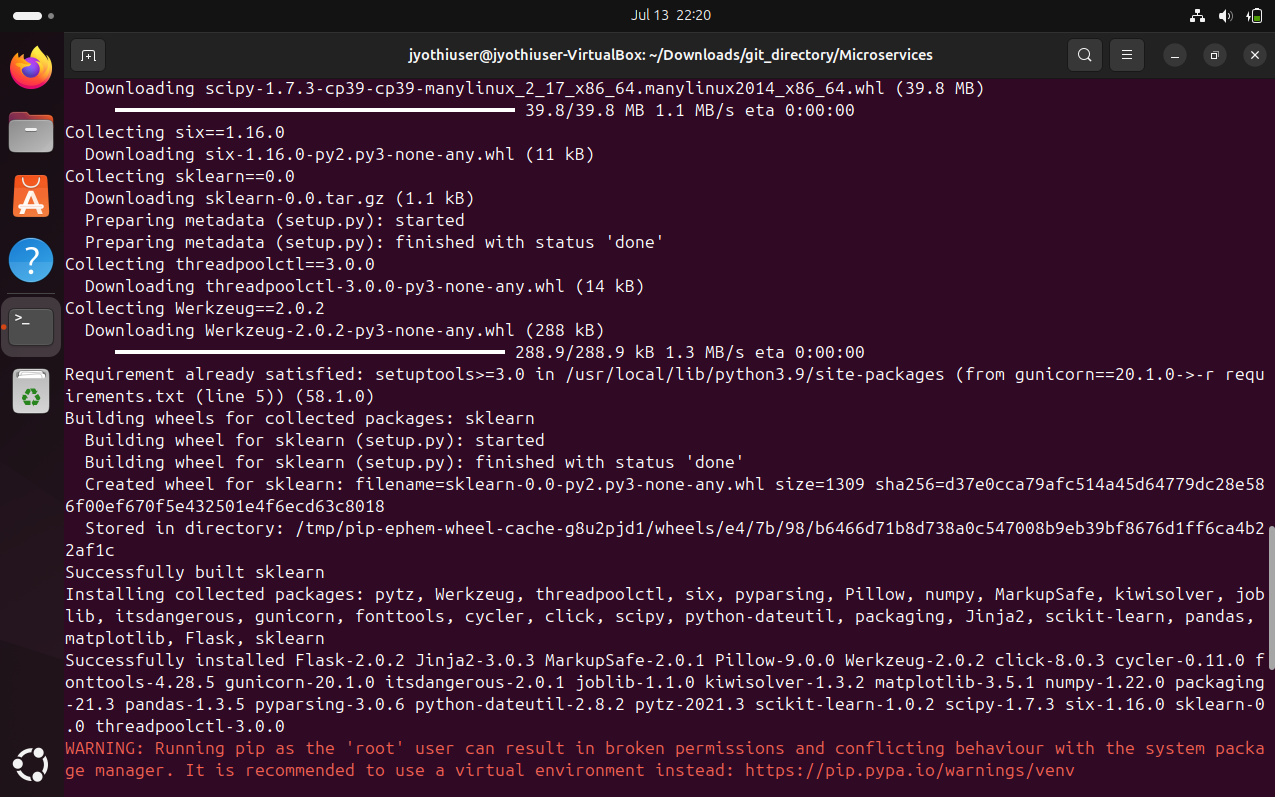
10. Create a docker image containing everything needed to run the application

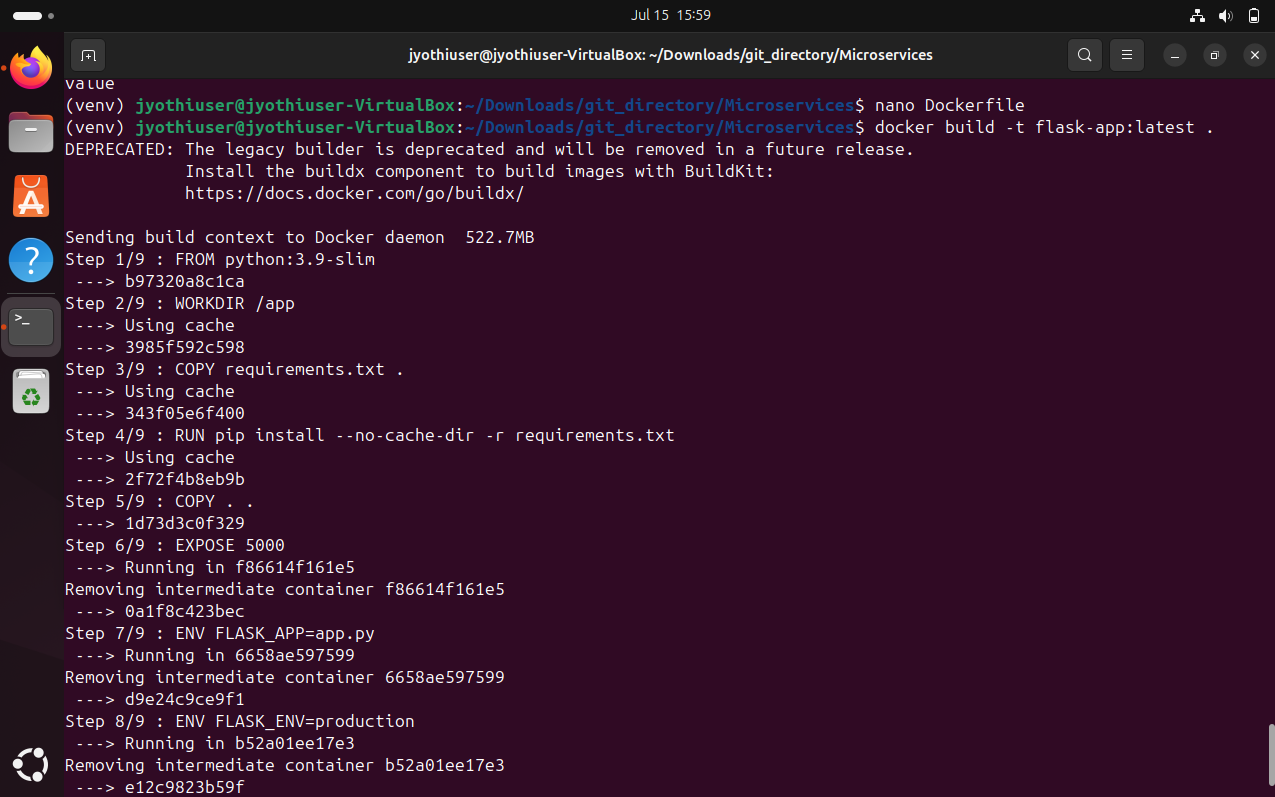












11. Run the containerized application as a prediction service and test it locally by passingsome example calls and get the prediction.

