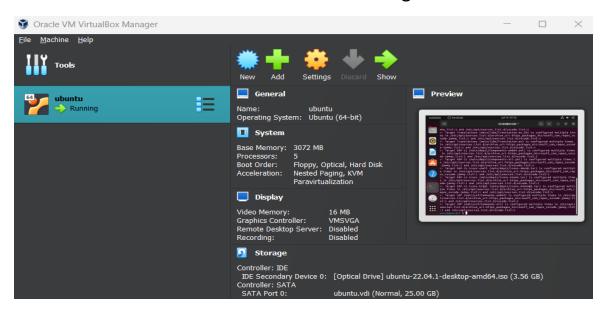
Week 10 - Week 12: Graded Assignment

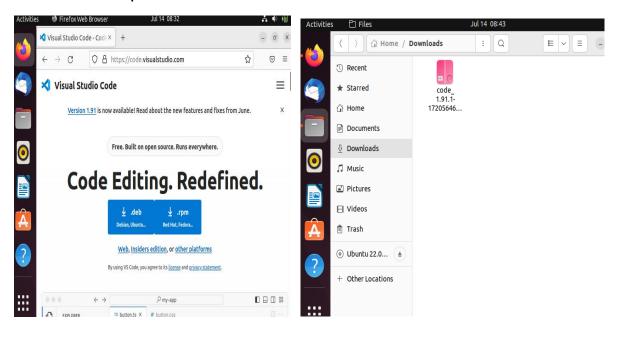
Objective: Implementing a microservice using the Python Flask framework on an Ubuntu virtual machine to serve a machine learning prediction model.

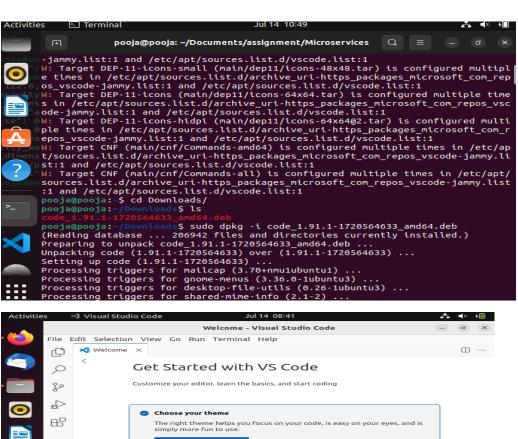
STEP 1: Host an Ubuntu Virtual Machine using Oracle VM Virtual Box.





STEP 2: Set up Visual Studio code on Ubuntu VM.



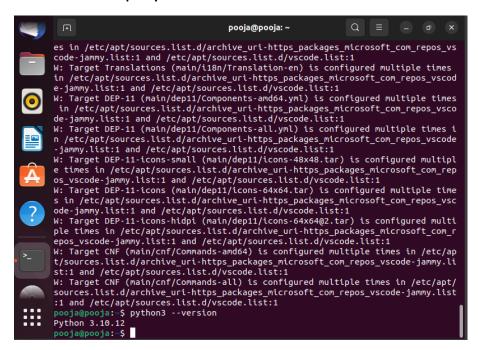


Tip: Use keyboard shortcut(Ctrl+K Ctrl+T)

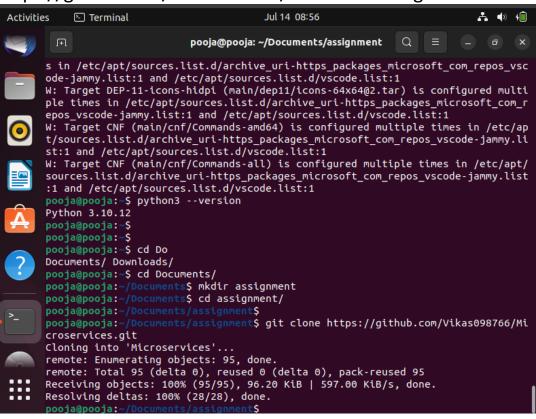
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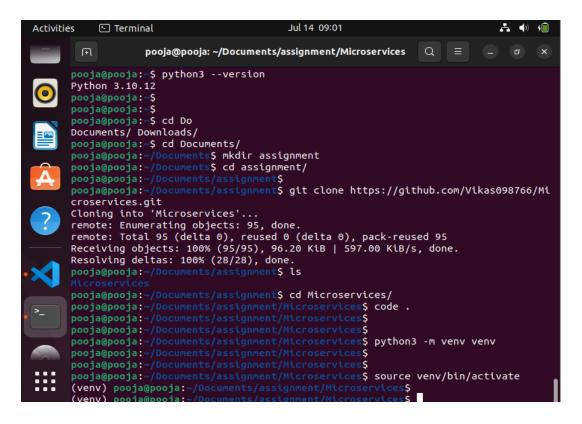
STEP 3: Set up Python.

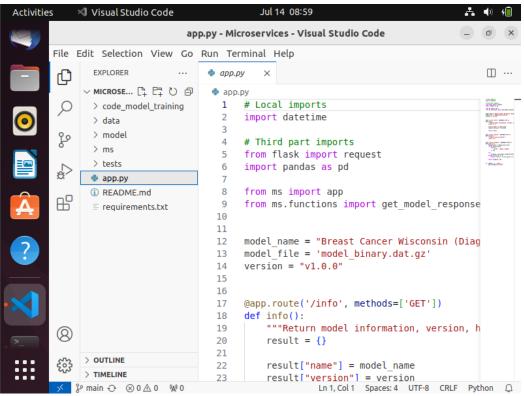


STEP 4: Clone this Github repository - https://github.com/Vikas098766/Microservices.git

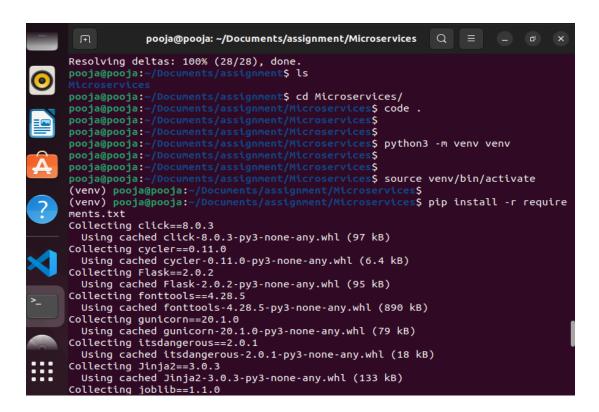


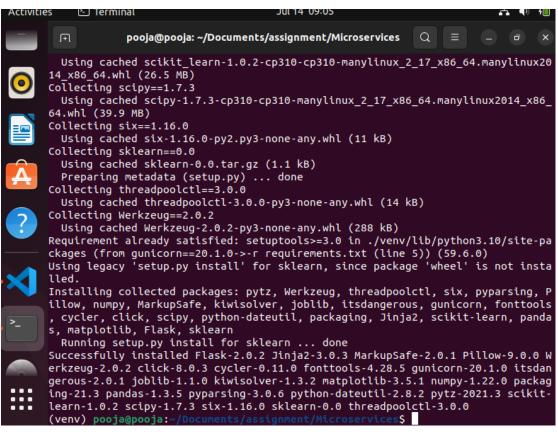
STEP 5: Create a Virtual Environment.



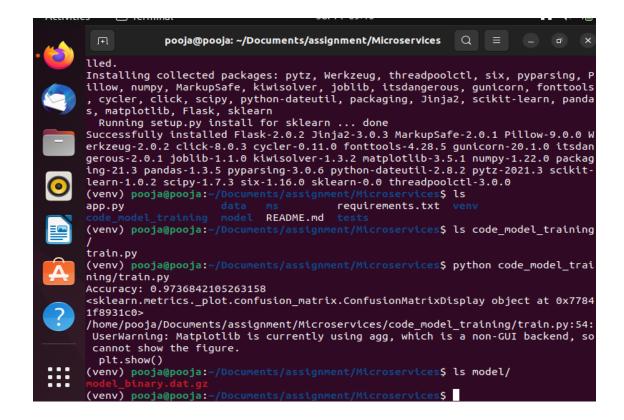


STEP 6: Install the dependencies from requirements.txt file.

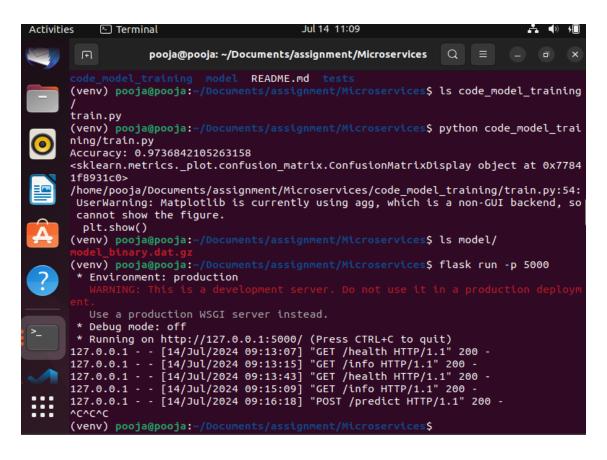




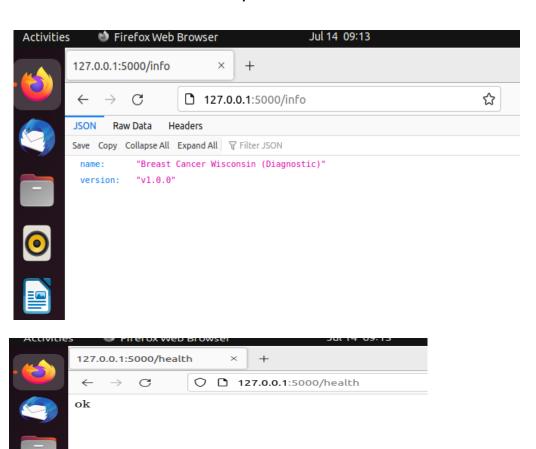
STEP 7: Train and save the model

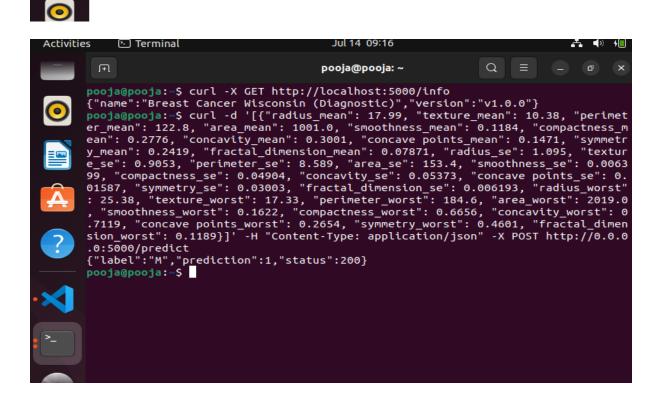


STEP 8: Test the Flask web application.

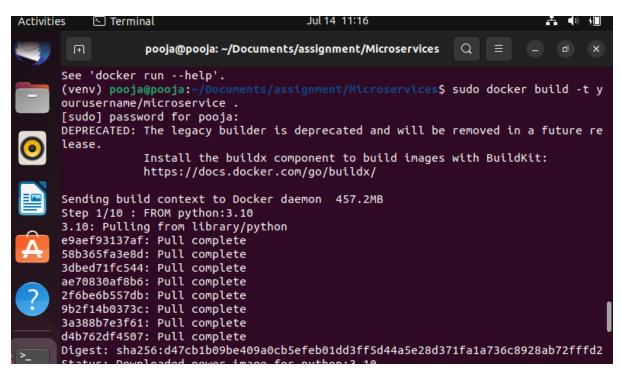


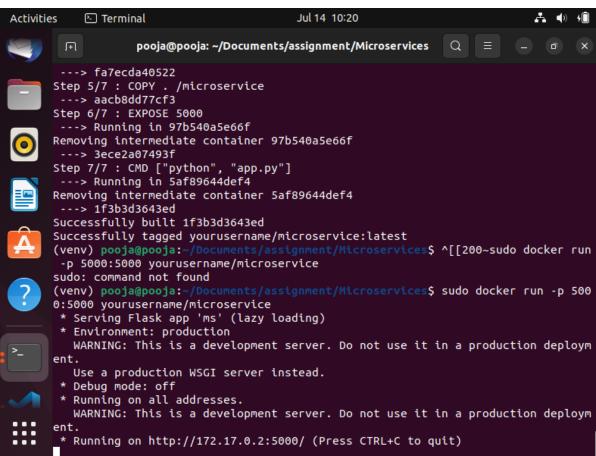
STEP 9: Test the application and make predictions using the example calls available in the folder /tests.





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





STEP 11: Run the containerized application as a prediction service and test it locally by passing some example calls and get the prediction.

