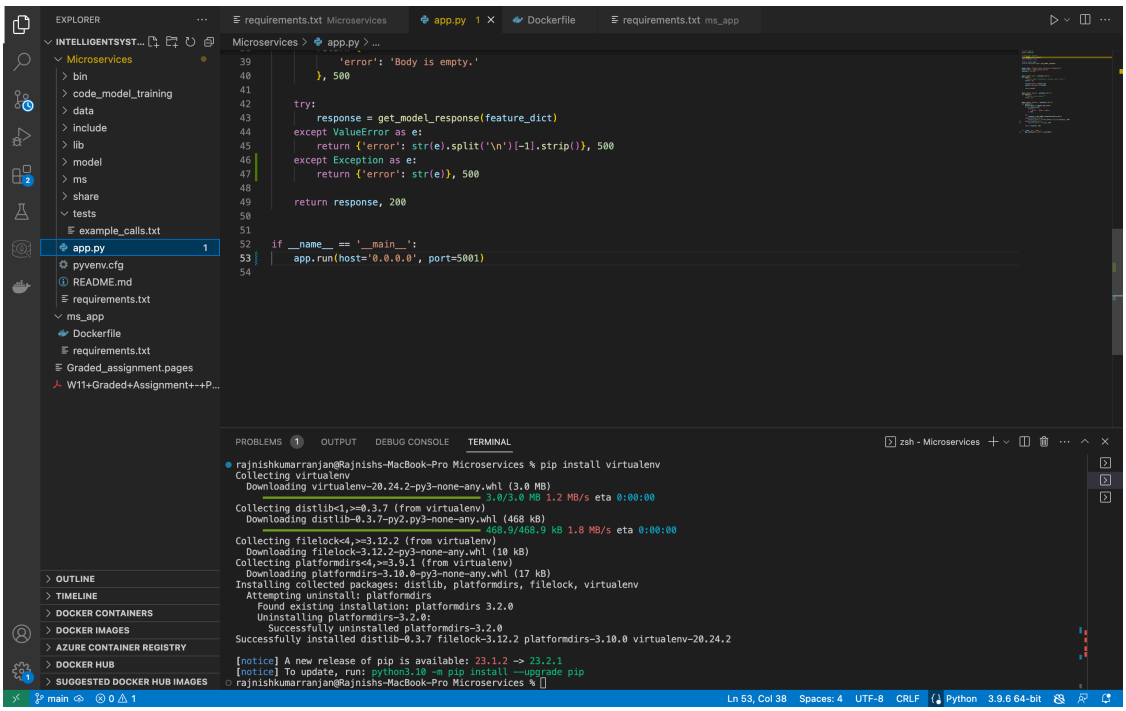
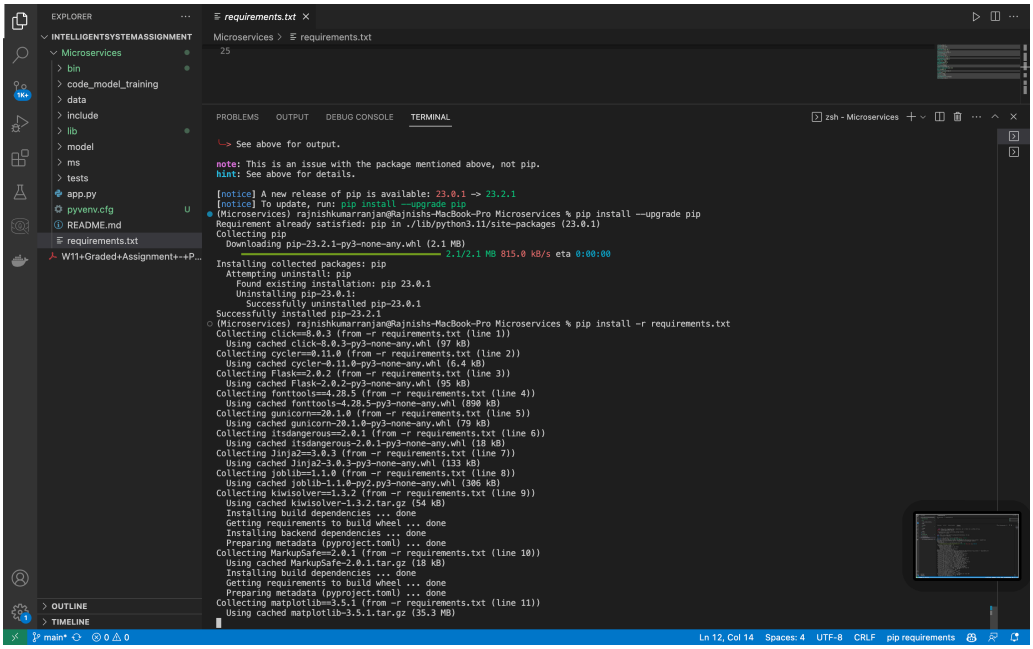
Project Summary

Links - [Github Link](), [Docker Images]()

- **Created virtual environment in VS code locally**
  - Trained the model
  - Tested using curl command
- **Docker images and containers**
  - Image1 - ms_app
    - Contains API to predict breast cancer, to get method info and health
    - Pushed it on docker hub as - rajnish06/breast_cancer_predict_api
  - Image2 - front_app
    - Contains html template to render form and prediction result. Where form takes input from user and displays the result
    - Pushed it on docker hub as - rajnish06/breast_cancer_predict_web
  - Creating a network for communication among containers
    - Used [docker network inspect <network_name>] for pointing to IPAddress of another container

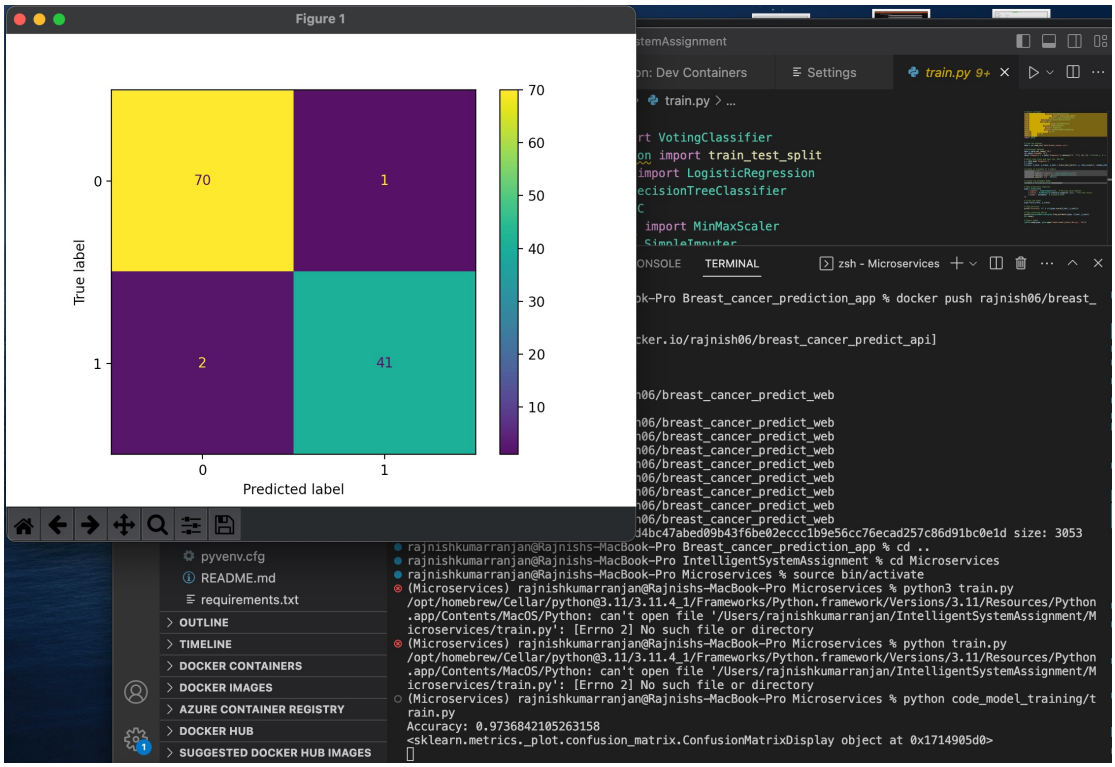


Installing requirements

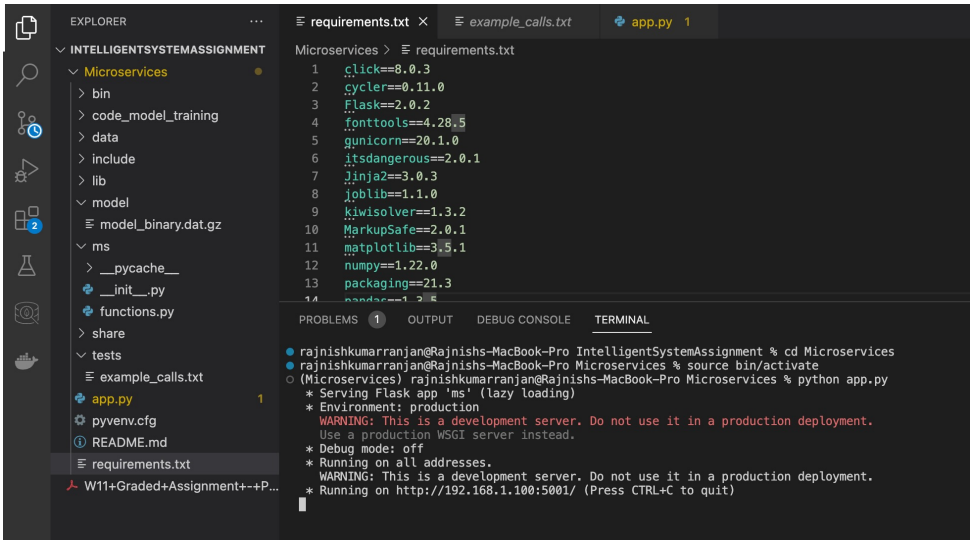


Creating a virtual environment

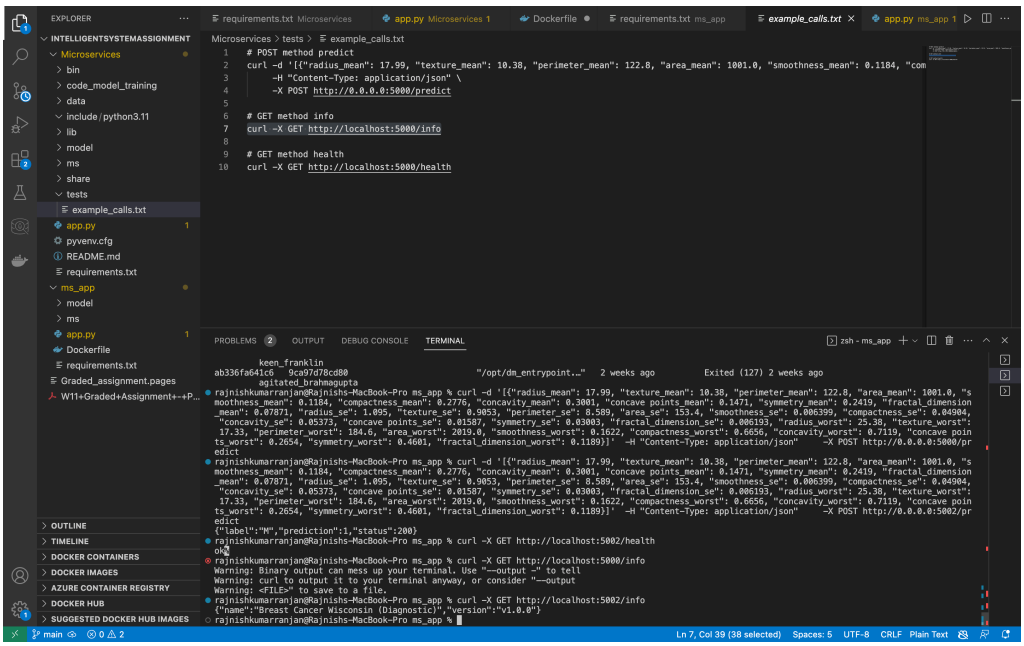
Training the Model



Running and Testing the App in Virtual Env

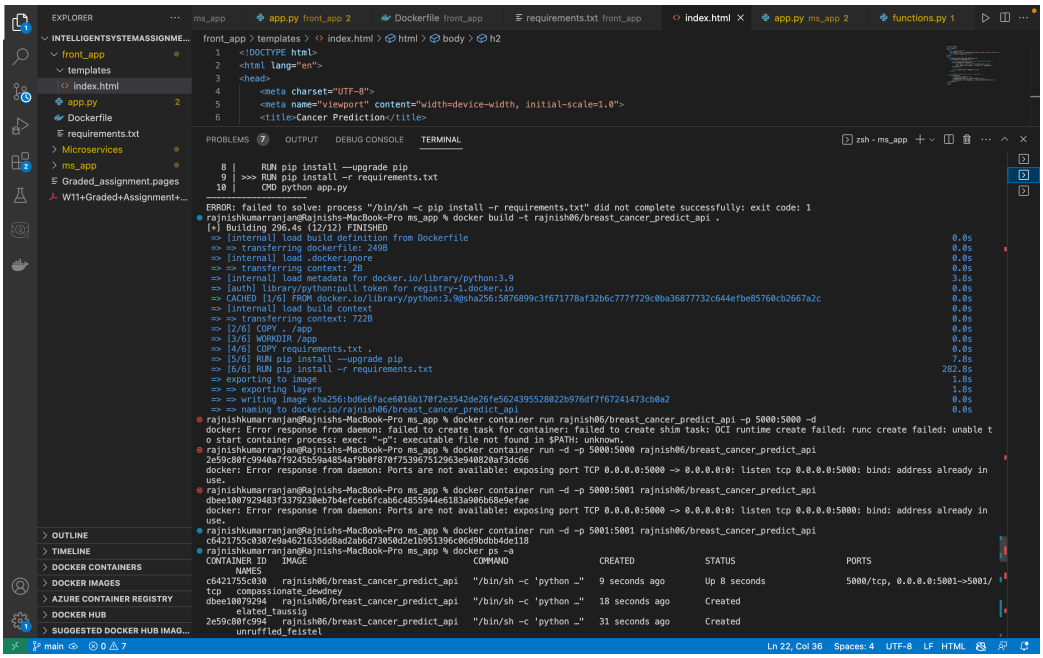


Testing all 3 APIs provided



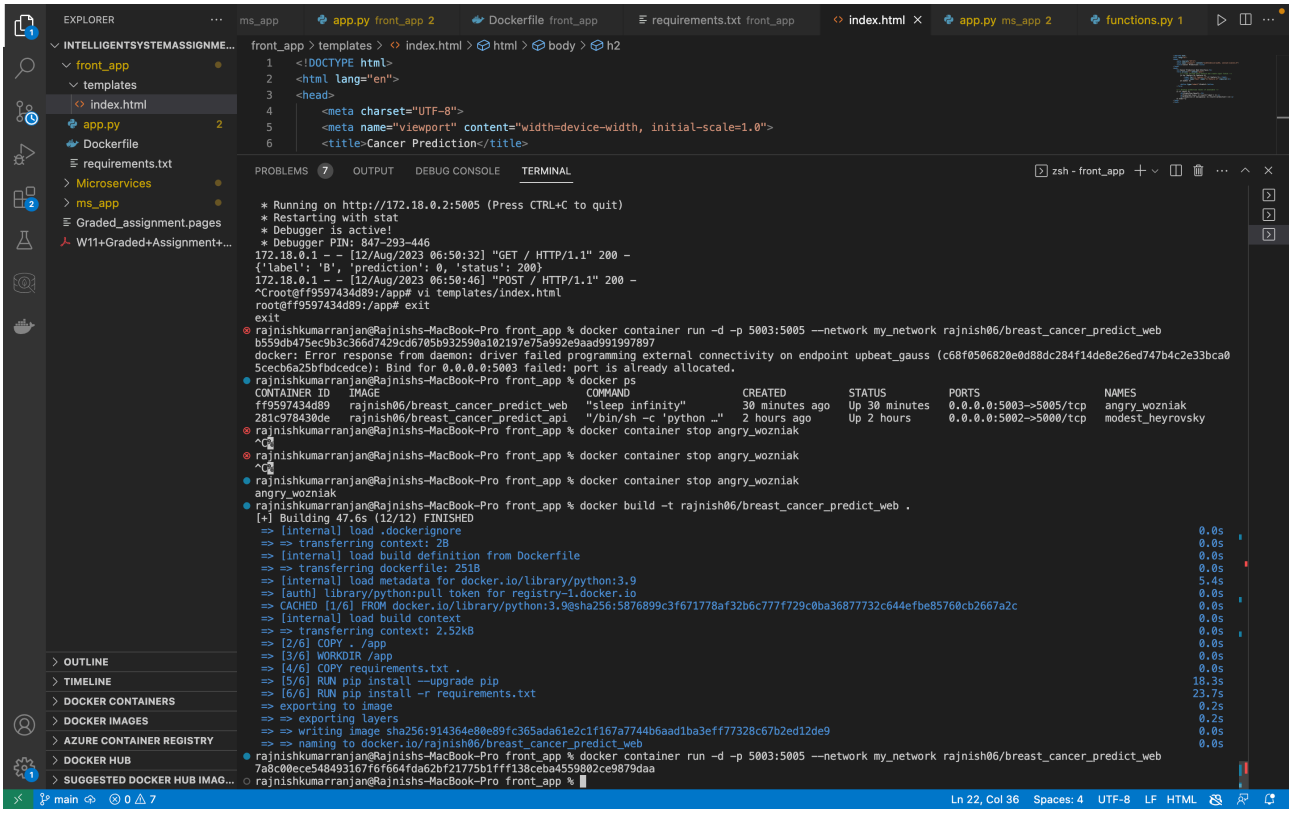
Creating Docker Images and Testing Them

Please find the code for API app here on [here on Github.]
 - It's container deploys API to predict breast cancer using post method



Please find the code related to web app image [here on Github.]

 - It's container creates a form web UI, when filled and upon clicking on predict, it shows the prediction



Web UI illustration