

Week 5: Deployment on Heroku

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Batch Code: <https://heroku-week5-20456488b50a.herokuapp.com/>

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In this week's assignment, the model.pkl file and index.html file of week 4 assignment were used. An account was created on Heroku to connect it to GitHub and deploy the application from Heroku. Week 4 pretrained model was used to create the app. Week 4 model was pretrained using price.csv modified version. And model.py was modified to retrain the model. New repository was created in GitHub to add the app files in it and connect it to Heroku. An issue was discovered due to the unawareness of the importance of the procfile. It was found out the function of the procfile and how it is used to fetch the variable ('app') from the app.py file to run the application. In procfile, 'gunicorn' meant that a python app is being deployed. Figure 1 shows the modification of model.py to train the linear regression model. The following figures represent the complete steps to deploy the application through Heroku. The application files were uploaded to GitHub, GitHub connected to Heroku, Heroku deployed the application and the app was opened using the attached URL.

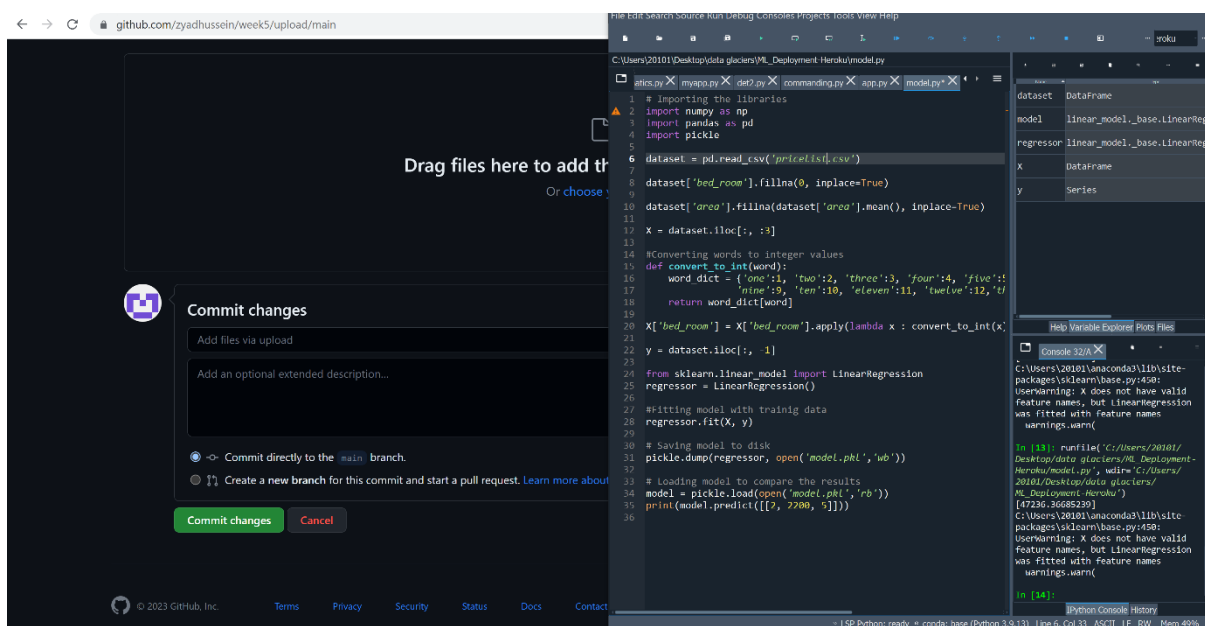


Figure 1: model.py file modification.

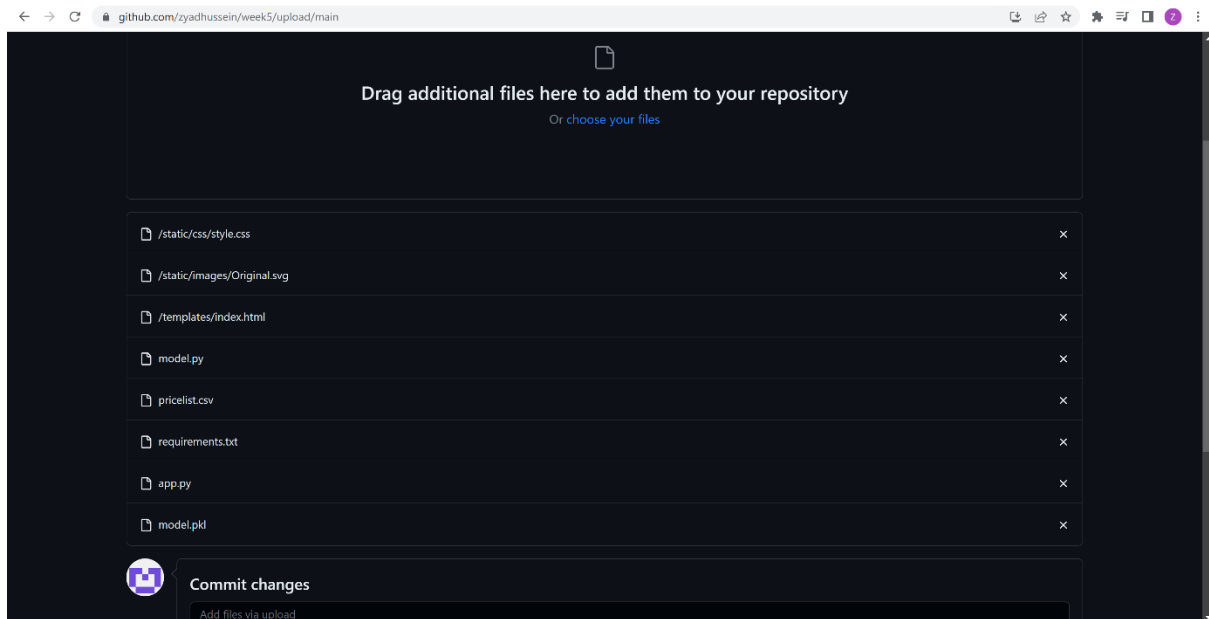


Figure 2: adding files to github repository created.

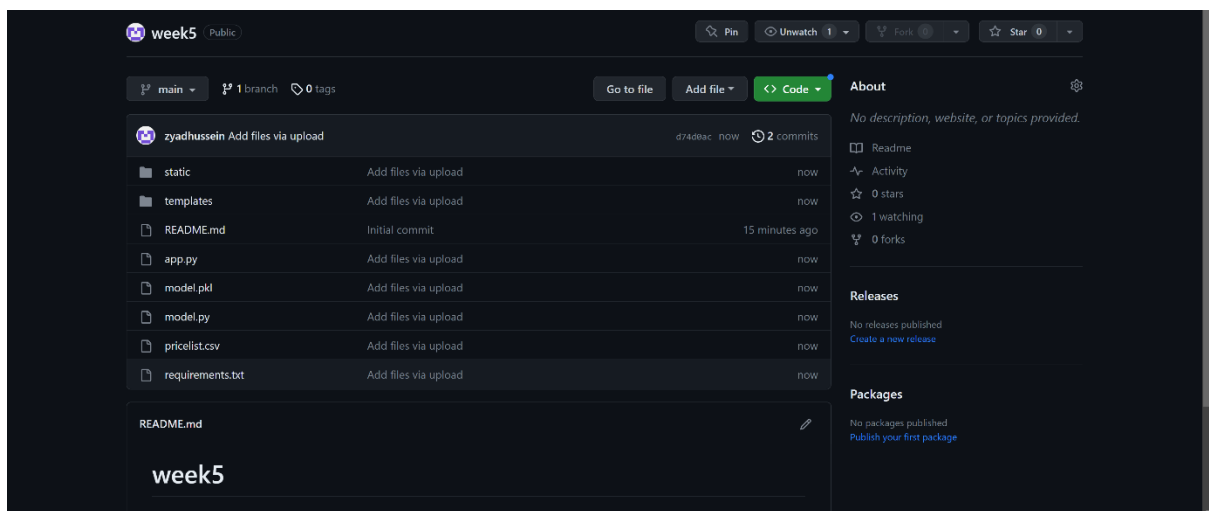


Figure 3: illustrates the complete files set needed to run the app.

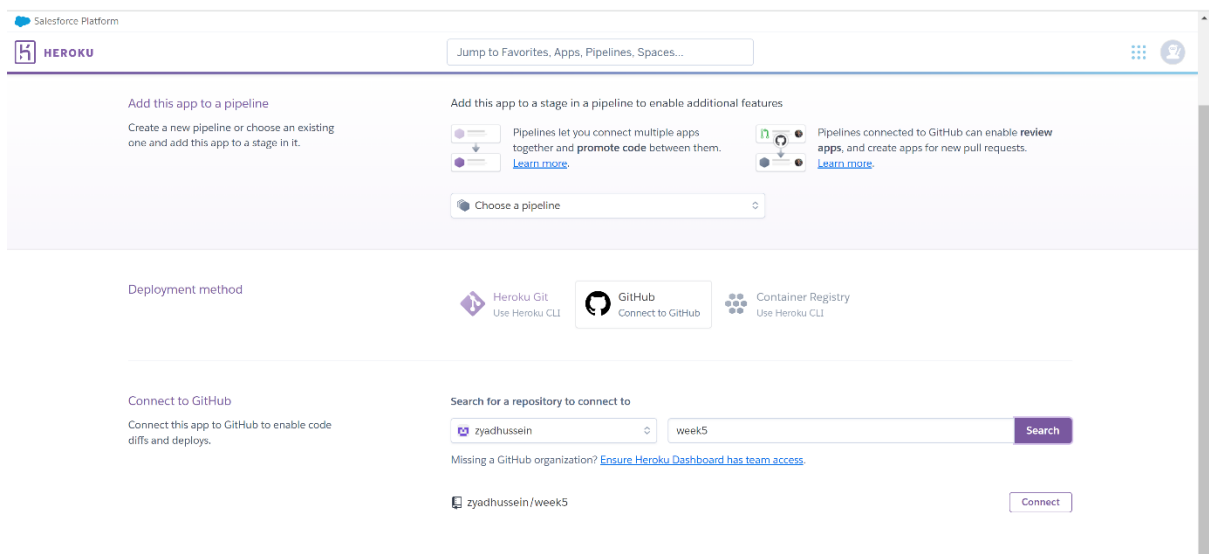


Figure 4: the connection of github repository to Heroku.

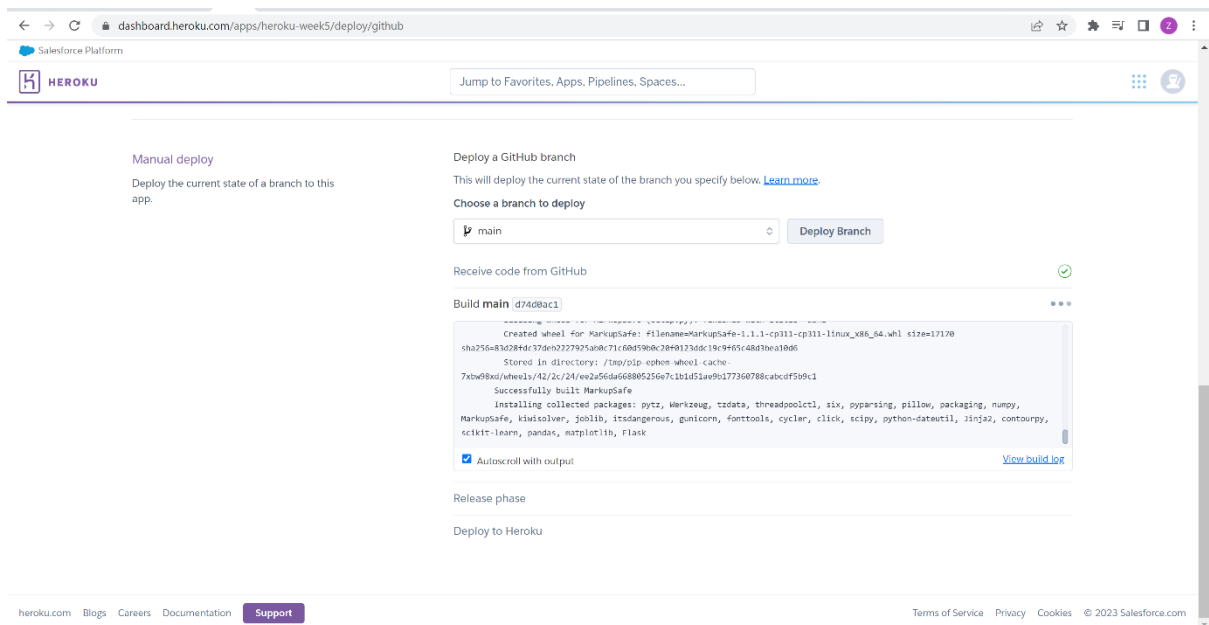


Figure 5: Heroku deploying the application

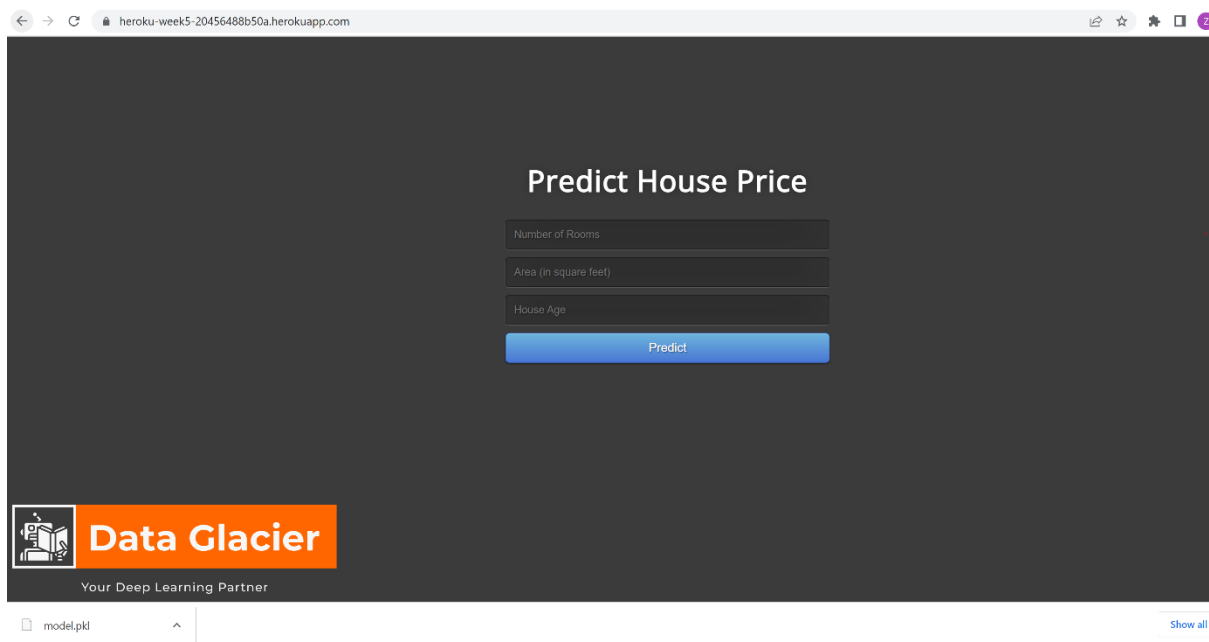


Figure 6: successful deployment of the application and results.

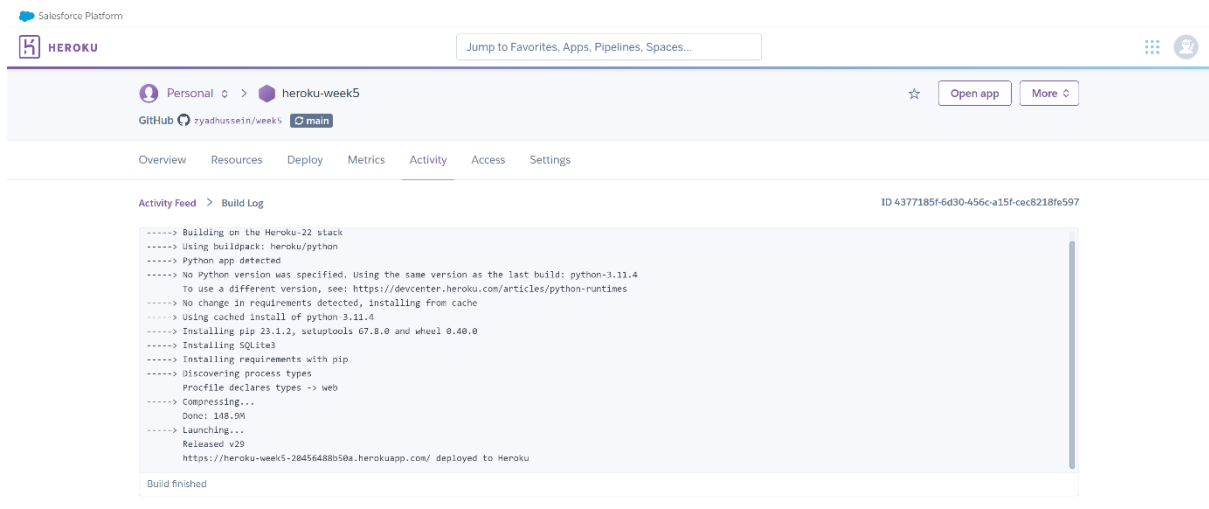


Figure 7: illustration of the build log showing the launching of the application.

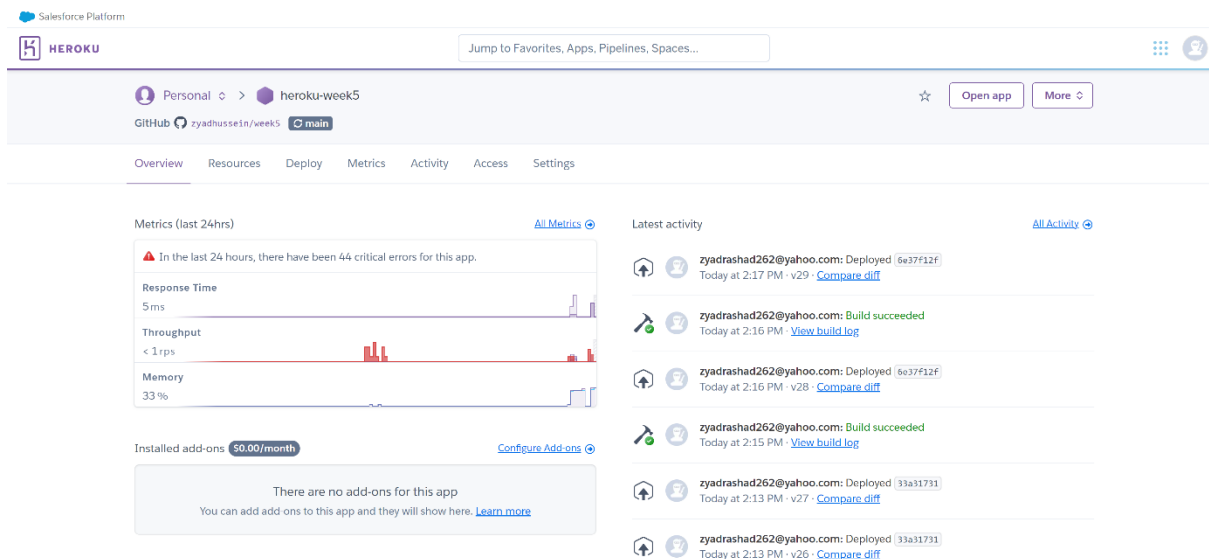


Figure 8: an illustration of the deployments of the application and their success.

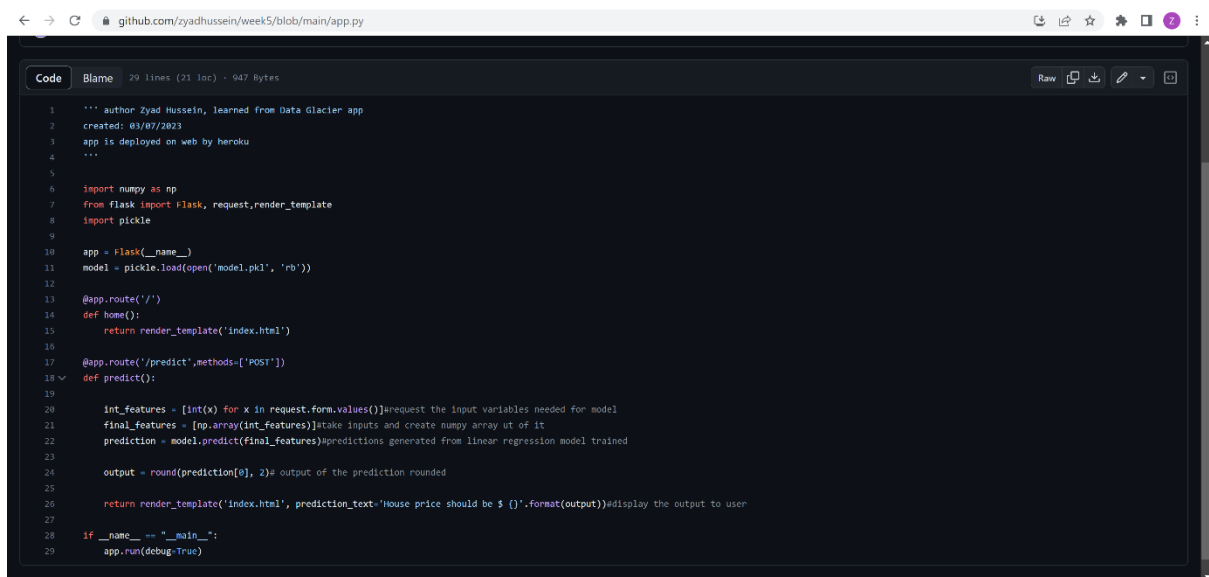


Figure 9: an illustration of the app.py file and its content. File created after learning from Data Glacier videos.