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Batch Code: LISP01

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DEPLOYMENT PROCESS:

Step 1) Create a Machine Learning Model

I am using the iris dataset from UCI Machine Learning Repository and using Support Vector Classifier to train my model.

Step 2) Serialization using Pickle

```
20
21 pickle.dump(sv, open('iris.pkl', 'wb'))
22
```

Using pickle.dump() to perform serialization using python's inbuilt module pickle.

Step 3) Creating HTML Form

To predict the class labels, the data is collected from new input values provided in the form and then use the model to predict the output and return the result in the form. Hence, an HTML form is used to display the result in the browser.

Step 4) Create Flask App

To host the HTML form, a Flask web app is created where the pickle file is read using pickle.load(). A home() fuction is created which takes the input from homepage (HTML homepage), the model will predict the class label and return the result.

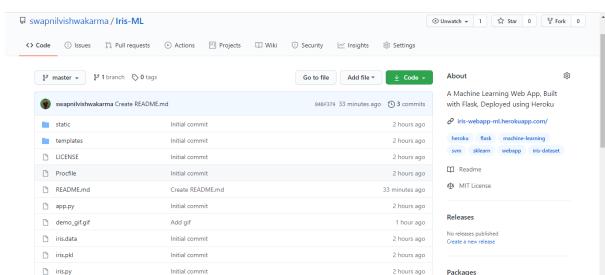
Step 5) Create configuration files



For deployment, Procfile and requirements.txt files are created.

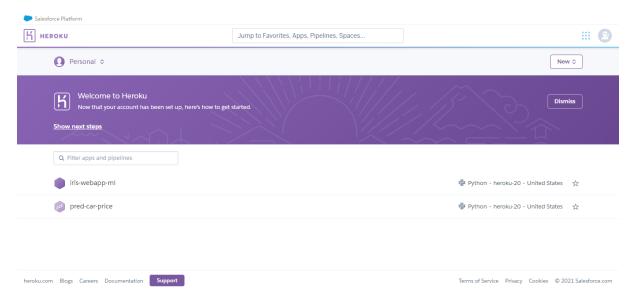
Procfile uses Gunicorn which is a pure-Python HTTP server for WSGI applications and it acts as a liaison in between the web application and the webserver.

Requirements.txt file contains all libraries and their dependencies.



Step 6) Commit files in Github Repo

Step 7) Link Github Repo to Heroku and Deploy



After creating a free account on Heroku, connect it to your Github.

To deploy a new app, click on create new app and connect to the Github repo which you want to deploy and click deploy branch. Now the web app is ready publically available.