

Week 5 cloud deployment using Heroku

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Code: LISUM12

https://github.com/Mariamali2001/Data_Glacier_virtual_internship/tree/week5_v2

Here a snapshot for web app

```
from unittest.mock import patch
from flask import Flask, request, render_template
import numpy as np
import pickle

app=Flask(__name__)
model = pickle.load(open('model.pkl','rb'))

@app.route('/')
def home():
    return render_template('index.html')

@app.route('/predict',methods=['POST'])
def predict():

    features = [float(x) for x in request.form.values()]
    final_features = [np.array(features)]
    prediction = model.predict(final_features)

    return render_template('index.html', prediction_text='The flower species is {}'.format(prediction))

if __name__ == "__main__":
    app.run(port =5000,debug=True)
```

Here a snapshot for model

```
You, 1 hour ago | I author (You)
import numpy as np
import pandas as pd
import pickle
from sklearn.ensemble import RandomForestClassifier
from sklearn.model_selection import train_test_split

data = pd.read_csv('E:/solo projects/Data_Glacier_virtual_internship/Data_Glacier_virtual_internship/IRIS.csv')

X = data[["sepal_length", "sepal_width", "petal_length", "petal_width"]]
Y = data["species"]

# split data to train and test
X_train,X_test , Y_train , Y_test = train_test_split(X, Y, test_size=0.2)

regressor =RandomForestClassifier()

#fit the model
regressor.fit(X_train,Y_train)

# make pickle file to the model


pickle.dump(regressor, open('model.pkl','wb'))



# Loading model to compare the results
model = pickle.load(open('model.pkl','rb'))
```


Both model and app used from week 4 by same datasets

Snapshots from creating an account on Heroku and connecting GitHub to it , lastly cloud deployment

Deployment method



 Heroku Git
Use Heroku CLI

 GitHub
Connected 


 Container Registry
Use Heroku CLI

App connected to GitHub

Code diffs, manual and auto deploys are available for this app.

Connected to  [Mariamali2001/Data_Glacier_virtual_internship](#) by  [Mariamali2001](#)


Disconnect...

 Releases in the [activity feed](#) link to GitHub to view commit diffs

Deploy a GitHub branch


This will deploy the current state of the branch you specify below. [Learn more.](#)

Choose a branch to deploy


 week5_v2

Deploy Branch


Receive code from GitHub




Build week5_v2 7df2f86a




Release phase



Deploy to Heroku



Your app was successfully deployed.

 View

<https://heroku-week5-data-glacier.herokuapp.com/>