

# Week5: Deployment on Heroku

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Batch code: LISP01


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Submitted to: GitHub




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## 1. Files required to deploy on Heroku: Procfile and requirements.txt


 main ▾ [Heroku-deployment](#) / Procfile Go to file ...




 WalquerX Add files via upload Latest commit 5d7a6ca 14 minutes ago [History](#)

 1 contributor

1 lines (1 sloc) | 21 Bytes Raw Blame   

1 web: gunicorn app:app

 1 contributor

17 lines (17 sloc) | 276 Bytes Raw Blame   

1 click==7.1.2  
2 gunicorn==19.9.0  
3 Flask==1.1.2  
4 itsdangerous==1.1.0  
5 Jinja2==2.11.3  
6 joblib==1.0.1  
7 MarkupSafe==1.1.1  
8 numpy==1.20.1  
9 pandas==1.2.3  
10 python-dateutil==2.8.1  
11 pytz==2021.1  
12 scikit-learn==0.22.2.post1  
13 scipy==1.6.1  
14 six==1.15.0  
15 sklearn==0.0  
16 threadpoolctl==2.1.0  
17 Werkzeug==1.0.1

## 2. Files uploaded on GitHub

The screenshot shows the GitHub repository page for 'WalquerX / Heroku-deployment'. The repository is currently on the 'main' branch with 1 branch and 0 tags. The file list includes: templates, Linear\_regression\_dataset.csv, Procfile, app.py, linear\_regression.ipynb, linear\_regression\_model.pkl, and requirements.txt. All files were added via upload 11 to 13 minutes ago. The repository has 2 commits. On the right, there are sections for 'About' (no description), 'Releases' (no releases published), 'Packages' (no packages published), and 'Languages'.

## 3. Connecting Heroku to GitHub repository

The screenshot shows the Heroku 'Create New App' form. The 'App name' field is filled with 'prediction-using-flask' and has a green checkmark. Below it, a message states 'prediction-using-flask is available'. The 'Choose a region' dropdown is set to 'United States'. There is an 'Add to pipeline...' button and a 'Create app' button at the bottom.

The screenshot shows the Heroku app configuration page for 'prediction-using-flask'. It is connected to the GitHub repository 'WalquerX/Heroku-deployment'. A message states: 'You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please follow the instructions [here](#).' Below this, there is a section for 'Automatic deploys' with a checkbox 'Wait for CI to pass before deploy' (unchecked) and a button 'Enable Automatic Deploys'. The 'Choose a branch to deploy' dropdown is set to 'main'.

## 4. Deploying model

Deploy the current state of a branch to this app.

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

Choose a branch to deploy

main

Deploy Branch

Receive code from GitHub ✓

Build main 9c0d1577 ...

```
-----> Building on the Heroku-20 stack
-----> Determining which buildpack to use for this app
-----> Python app detected
-----> Installing python-3.6.13
-----> Installing pip 20.1.1, setuptools 47.1.1 and wheel 0.34.2
-----> Installing SQLite3
```

☒ Autoscroll with output [View build log](#)

Release phase

Deploy to Heroku

Salesforce Platform

HEROKU

Jump to Favorites, Apps, Pipelines, Spaces...

Manual deploy

Deploy the current state of a branch to this app.

Deploy a GitHub branch

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

Choose a branch to deploy

main

Deploy Branch

Receive code from GitHub ✓

Build main aca0297a ✓

Release phase ✓

Deploy to Heroku ✓

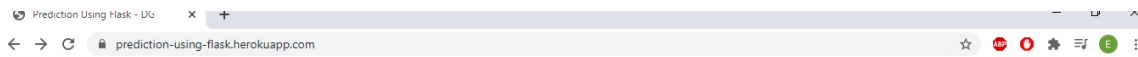
Your app was successfully deployed.

View

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## 5. Checking web app



### Prediction from Regression

Enter the values

var\_1  
34728

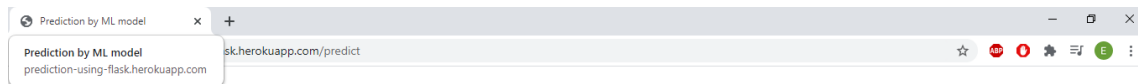
var\_2  
32123

var\_3  
213123

var\_4  
12312

var\_5  
23412

Submit



### Prediction Result

3608.45

## 6. Checking API functionality with postman

The screenshot shows the Postman application interface. On the left, the 'My Workspace' sidebar is visible with options like Collections, APIs, Environments, Mock Servers, Monitors, and History. The main area displays a POST request to the URL `https://prediction-with-flask.herokuapp.com/predict`. The request body is set to 'form-data' and contains four parameters: `var_1` (4556), `var_2` (8523), `var_3` (7889), and `var_4` (7459). The response status is 200 OK, and the response body is displayed in 'Pretty' format, showing 'Prediction Result' and '-971.86'.

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> var_1	4556	
<input checked="" type="checkbox"/> var_2	8523	
<input checked="" type="checkbox"/> var_3	7889	
<input checked="" type="checkbox"/> var_4	7459	

**Prediction Result**

**-971.86**