

MODEL DEPLOYMENT ON HEROKU

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Submission Date:04/12/23

Submitted to :Data Glacier

```
from flask import Flask, request, render_template
import pickle
import numpy as np

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

@app.route('/')#http://www.google.com/
def home():
    return render_template('index.html')
@app.route('/predict',methods=['POST'])
def predict():
    int_features=[int(x) for x in request.form.values()]
    final_features=np.array(int_features)
    prediction=model.predict(final_features)

    output=round(prediction[0],2)

    return render_template('index.html', prediction_text='Price charged should be ${}'.format(output))

if __name__=="__main__":
    app.run(port=100, debug=True)
app.run(port=100)
```

Figure 1. Python code for deployment in Flask (app.py)

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>CAB PRICE ESTIMATION</title>
  <style>
    body {
      font-family: Calibri;
      color: #800000;
      background-color: Black;
      display: flex;
      align-items: center;
      justify-content: center;
      height: 100vh;
      margin: 0;
    }
    .login {
      text-align: center;
    }
    .title-frame {
      border: 2px solid #c2b280 ; /* Replace #000000 with the border color you want */
      padding: 10px;
      display: inline-block;
      animation: blink 2s infinite;
      background-color: #c2b280 ;
    }
    @keyframes blink {
      10% {
        opacity: 0; /* Make the element disappear at 50% of the animation */
      }
    }
    form {
      margin-top: 20px;
    }
  </style>
  <link href="//fonts.googleapis.com/css?family=Pacifico" rel="stylesheet" type="text/css"/>
  <link href="//fonts.googleapis.com/css?family=Pacifico" rel="stylesheet" type="text/css"/>
  <link href="//fonts.googleapis.com/css?family=Pacifico" rel="stylesheet" type="text/css"/>
  <link href="//fonts.googleapis.com/css?family=Pacifico" rel="stylesheet" type="text/css"/>
</head>
<body>
  <div class="login">
    <div class="title-frame">
      <h1>Predict Price charged</h1>
    </div>
    <form action="{{url_for('predict')}}" method="post">
      <input type="text" name="KM travelled" placeholder="Distance in KM" required="required"/>
      <button type="submit" class="btn btn-primary btn-block btn-large">Estimate</button>
    </form>
    <br>
    <br>
    {{prediction_text}}
  </div>
</body>
</html>

```

Figure 2.html code for deployment (index.html)

```
web: gunicorn app:app
```

Figure 3.Procfile

```
1 Flask==2.0.1
2 gunicorn==19.9.0
3 itsdangerous>=2.0
4 MarkupSafe>=2.0
5 Werkzeug==2.0.1
6 numpy>=1.9.2
7 scipy>=0.15.1
8 scikit-learn>=0.18
9 matplotlib>=1.4.3
10 pandas>=0.19
```

Figure 4.requirements.txt



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More

GitHub ayshaabdulazeez/heroku-Deployment-of-ML

Overview Resources Deploy Metrics Activity Access Settings

Metrics (last 24hrs)

All Metrics

No Metrics data in the last 24 hours

Installed add-ons - \$0.00/hour

Configure Add-ons

There are no add-ons for this app
You can add add-ons to this app and they will show here. [Learn more](#)

Dyno formation - \$0.010/hour

Configure Dynos

Latest activity

All Activity



ayshaabdulazeez41@gmail.com: Deployed f49a28d3
Nov 29 at 9:24 AM · v10 · [Compare diff](#)



ayshaabdulazeez41@gmail.com: Build succeeded
Nov 29 at 9:23 AM · [View build log](#)



ayshaabdulazeez41@gmail.com: Deployed 0b0fe992
Nov 29 at 9:18 AM · v9 · [Compare diff](#)



ayshaabdulazeez41@gmail.com: Build succeeded
Nov 29 at 9:18 AM · [View build log](#)



ayshaabdulazeez41@gmail.com: Deployed 3a0c01ef
Nov 29 at 9:10 AM · v8 · [Compare diff](#)



ayshaabdulazeez41@gmail.com: Build succeeded
Nov 29 at 9:09 AM · [View build log](#)

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OverviewResourcesDeployMetricsActivityAccessSettings

Add this app to a pipeline

Create a new pipeline or choose an existing one and add this app to a stage in it.

Add this app to a stage in a pipeline to enable additional features

Pipelines let you connect multiple apps together and promote code between them.

Learn more.

Pipelines connected to GitHub can enable review apps, and create apps for new pull requests.

Learn more.

Choose a pipeline

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

Connected to Ayshaabdulazeez/Heroku-Deployment-of-ML by Ayshaabdulazeez

Disconnect...

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Automatic deploys

Enables a chosen branch to be automatically deployed to this app.

You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please follow the instructions here.

Enable automatic deploys from GitHub

Every push to the branch you specify here will deploy a new version of this app. **Deploys happen automatically:** be sure that this branch is always in a deployable state and any tests have passed before you push. [Learn more.](#)

Choose a branch to deploy

main

☐ Wait for CI to pass before deploy

Only enable this option if you have a Continuous Integration service configured on your repo.

Enable Automatic Deploys

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

Figure 5. Deployment in Heroku