Week 5

Heroku Deployment

Name: Uday Vikram Singh

Batch code: LISUM17

Submission date: 01/02/2023

Submitted to: GitHub link submitted on dashboard

Notes: git repo has this document containing screenshots of deployment (submission_pdf_week_5). It also contains the .py scripts and templates needed to deploy the model.

The model and app code is based on example provided in Heroku Deployment Code section of Resources in dashboard.

Changes had to be made to the requirements.txt file, runtime.txt had to be added, Profile had to be changed.

Data

Name: tvmarketing.csv

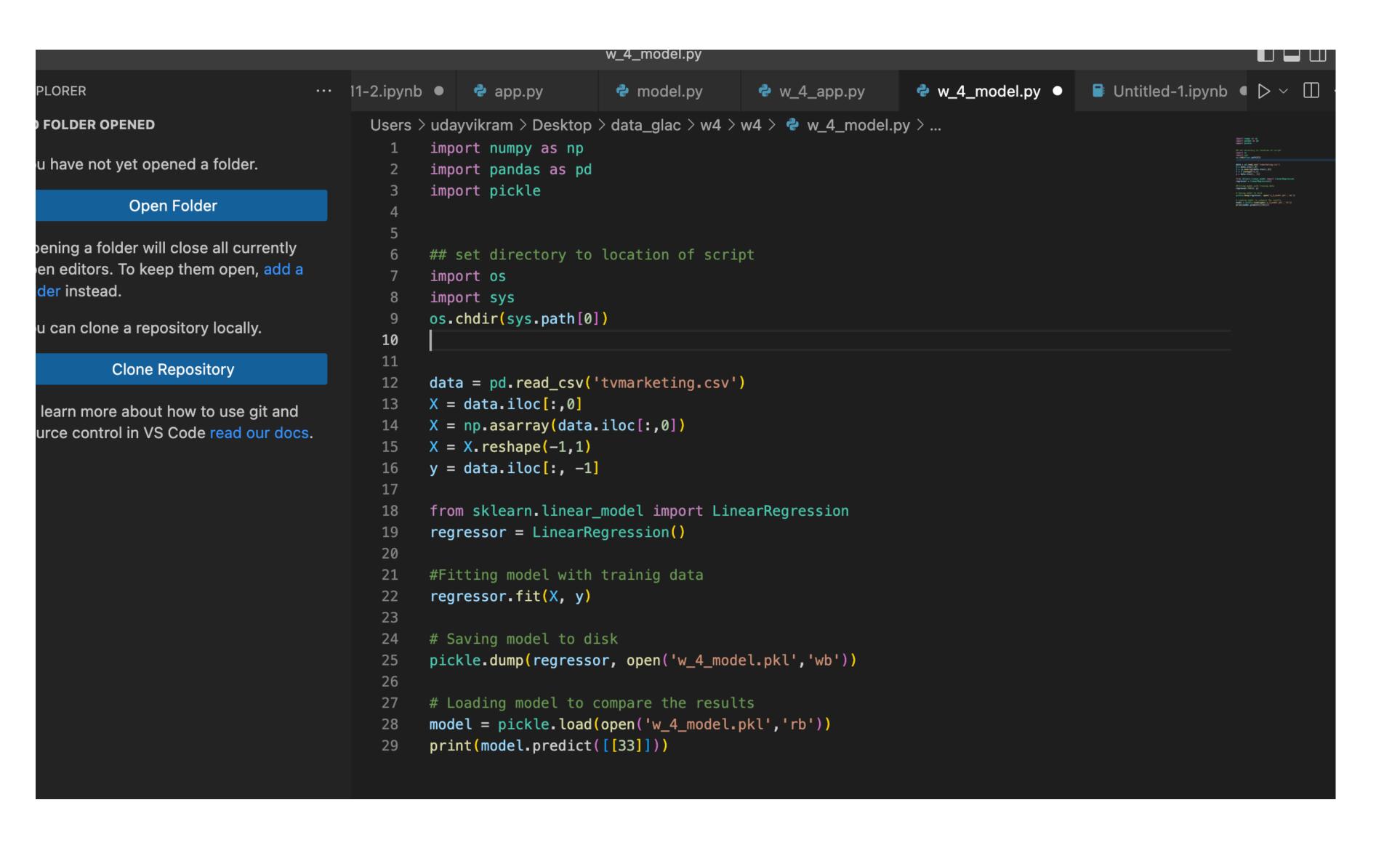
Columns: TV (marketing budget), Sales

• Rows: 200

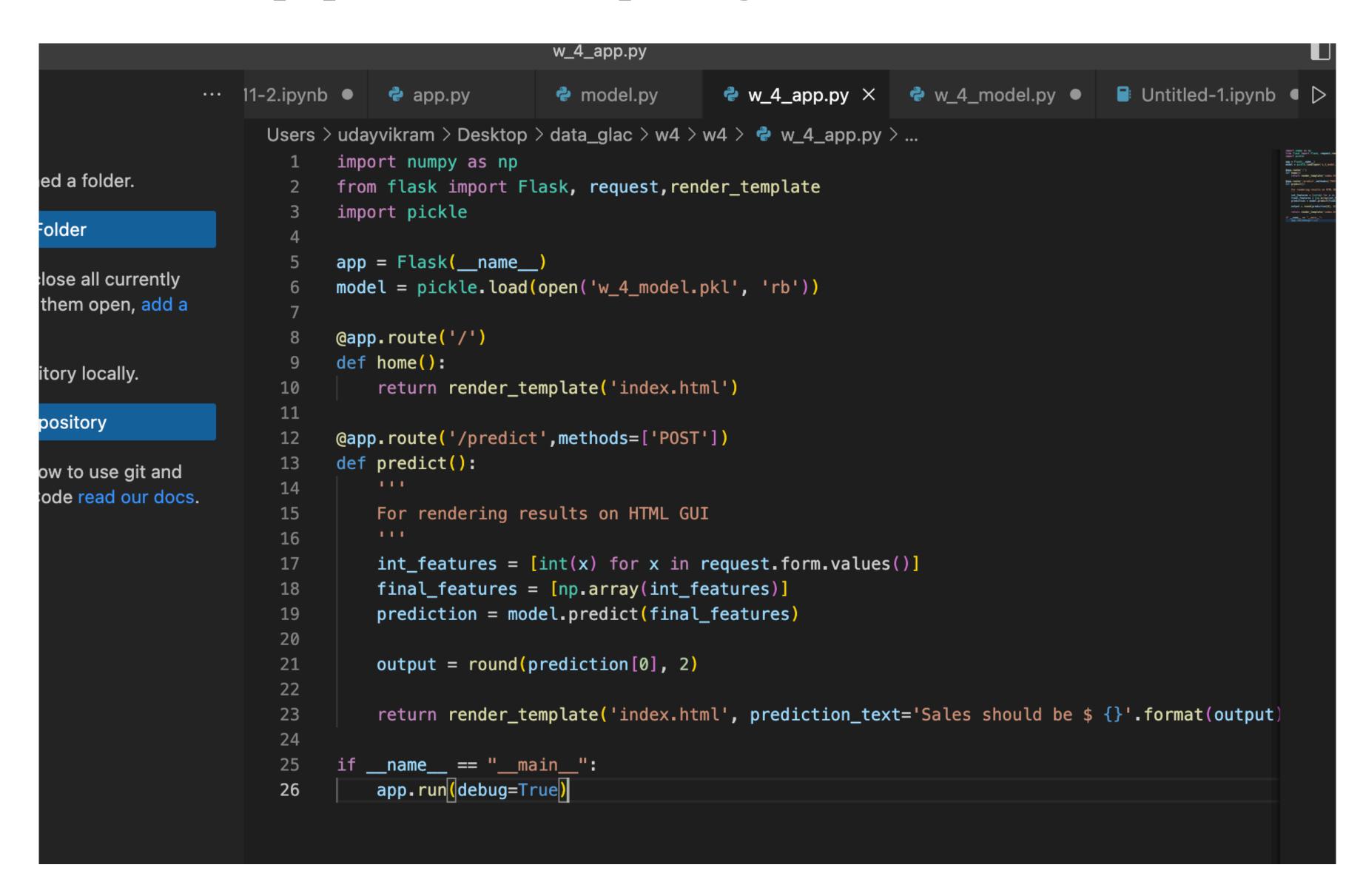
• Source: https://www.kaggle.com/datasets/devzohaib/tvmarketingcsv

• About: Data has only one independent variable (X). This makes it suitable for a toy model.

Load data and Build Model



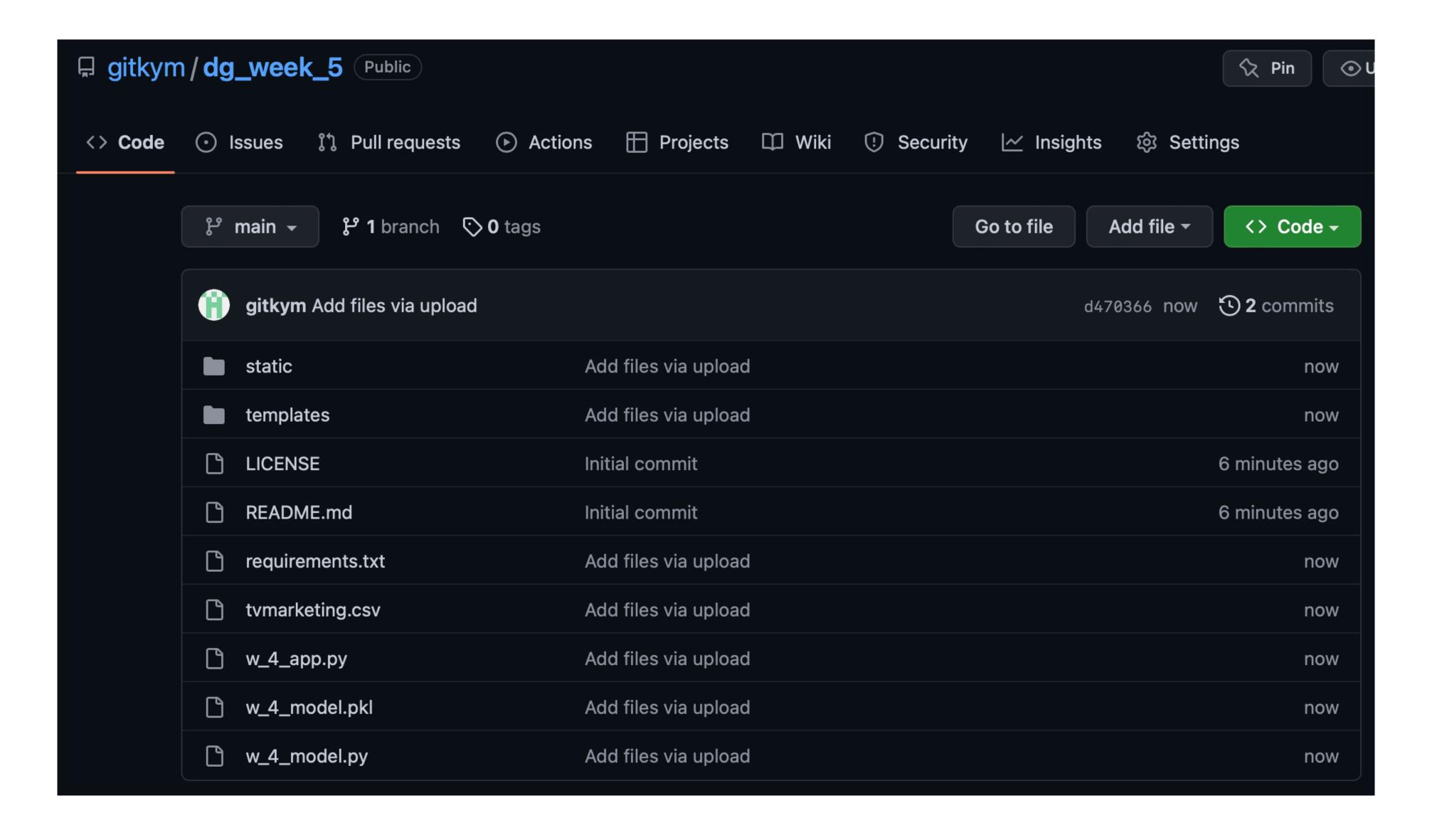
Write app for deployment



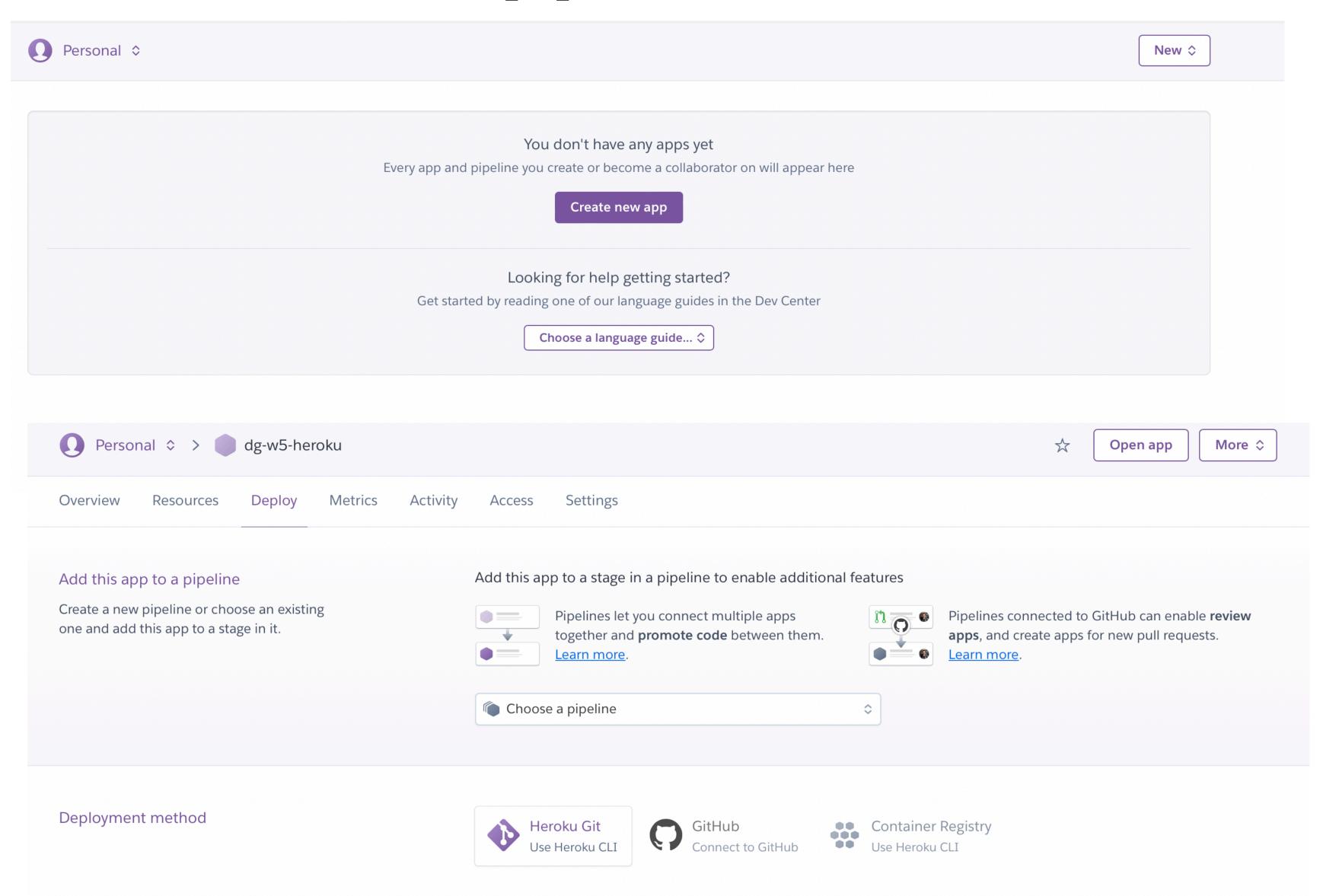
Edit HTML to ask correct prompt (based on dataset)

```
··· 11-2.ipynb • 🕏 🕏 app.py
                                             w_4_app.py
                                                               model.py
Users > udayvikram > Desktop > data_glac > w4 > w4 > templates > ↔ index.html > ↔ html > ↔ body > ↔ div.login > ↔
       <!DOCTYPE html>
       <html >
       <head>
         <meta charset="UTF-8">
        <title>ML API</title>
        <link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='text/cs</pre>
       <link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet' type='text/css'>
       <link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css</pre>
       <link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300' rel='stylesheet'</pre>
       <link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">
 10
 11
 12
       </head>
 13
 14
       <body>
        <div class="login">
 15
         <h1>Predict Sales Based on Marketing Budget</h1>
 16
 17
 18
           <!-- Main Input For Receiving Query to our ML -->
           <form action="{{ url_for('predict')}}"method="post">
 19
 20
           <input type="text" name="TV" placeholder="Marketing Budget" required="required" />
 21
 22
 23
               <button type="submit" class="btn btn-primary btn-block btn-large">Predict</button>
 24
           </form>
 25
 26
          <br
 27
          {{ prediction_text }}
 28
 30
        </div>
 31
        <img src="/static/images/Original.svg" style="width: 400px;position: absolute;bottom: 10px;le</pre>
 32
 33
       </body>
       </html>
 34
 35
```

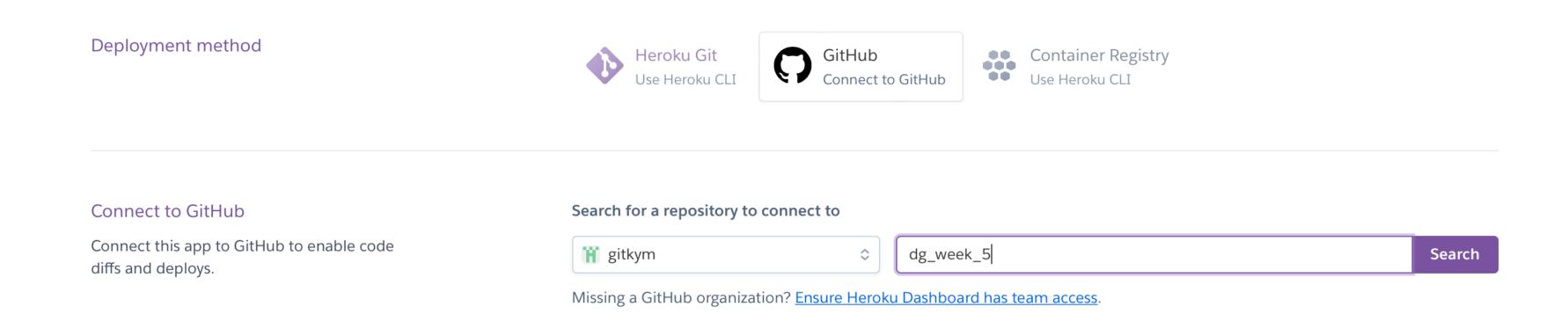
Upload required files to repo

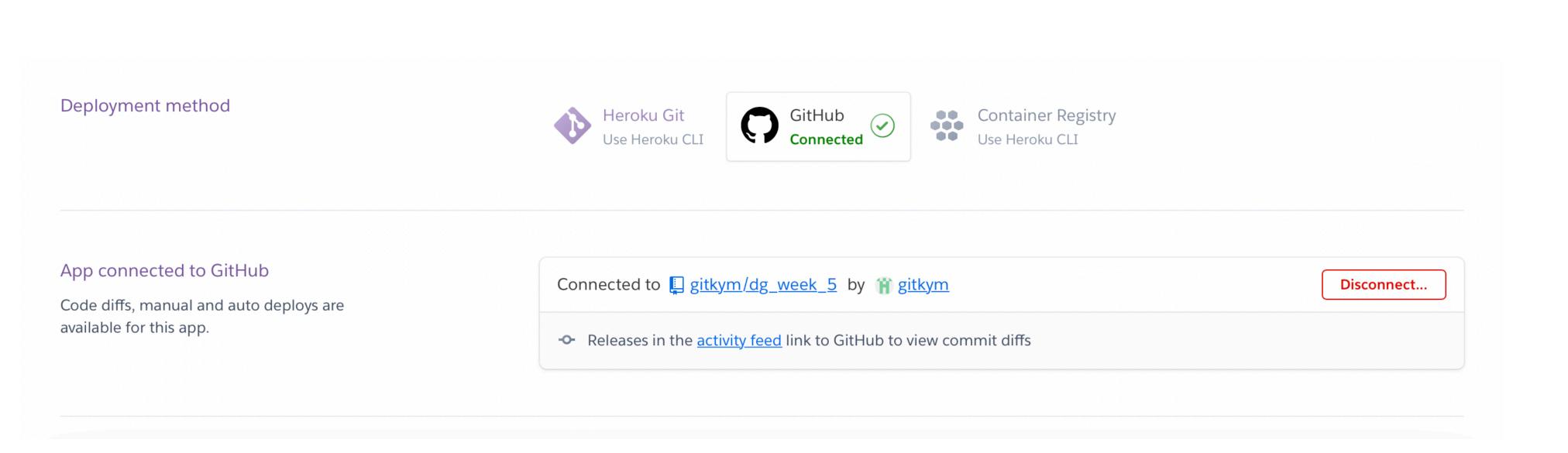


Create new app in Heroku

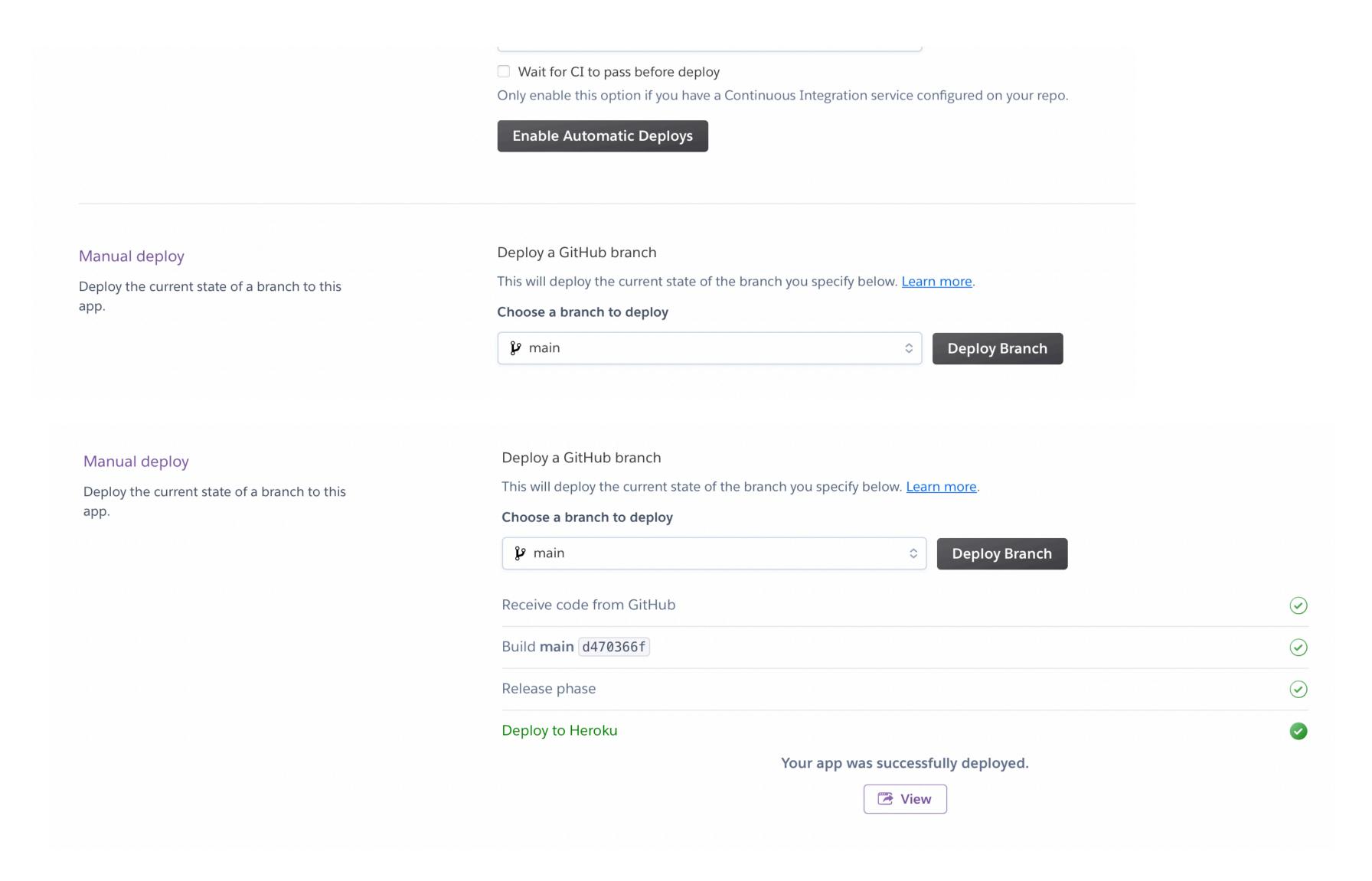


Link to GitHub





Deploy app and install dependencies



View app in browser and test it for different predictions

