Week 4

Flask Deployment

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Batch code: LISUM17

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Submitted to: GitHub link submitted on dashboard

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

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

Data

Name: tvmarketing.csv

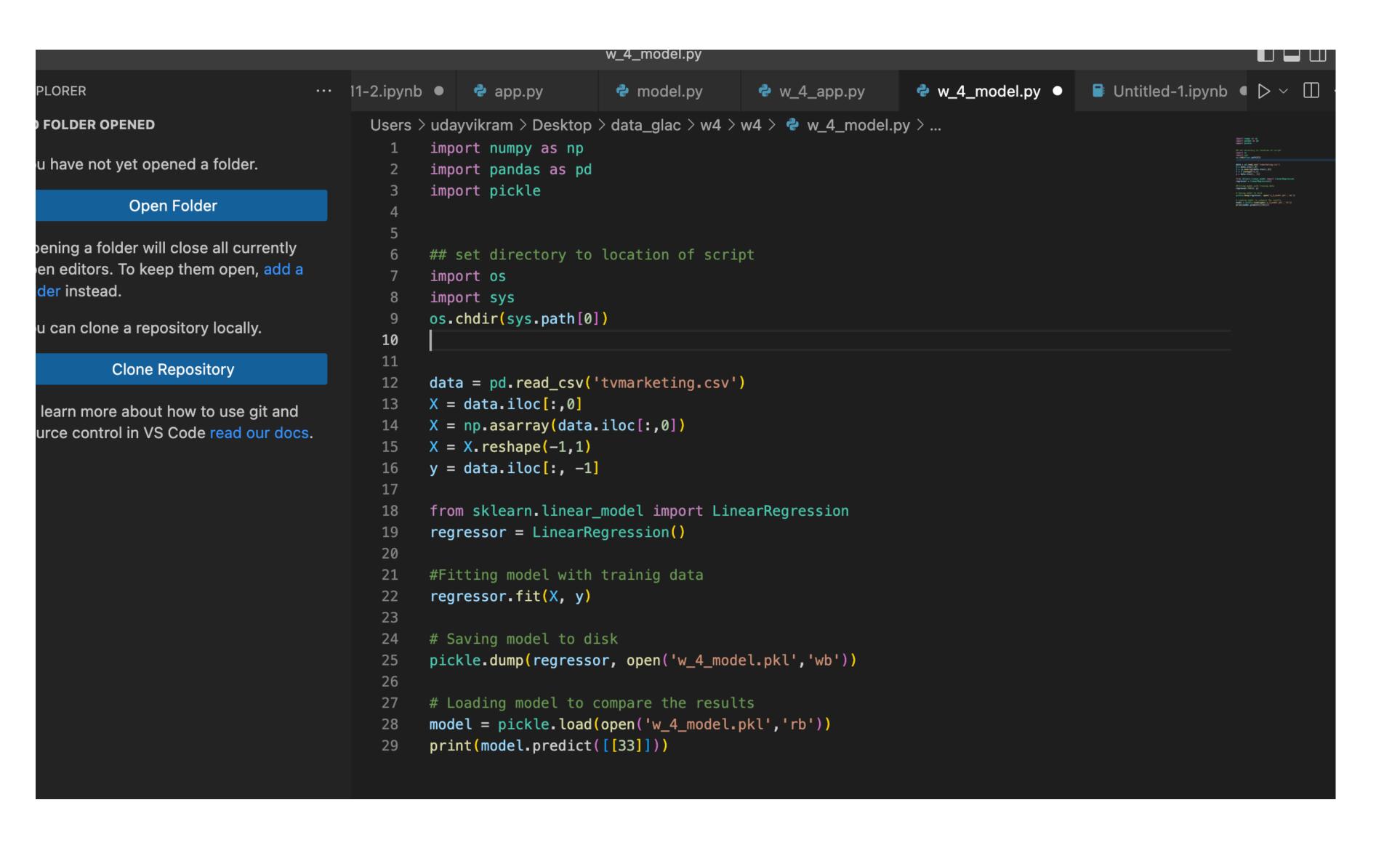
Columns: TV (marketing budget), Sales

• Rows: 200

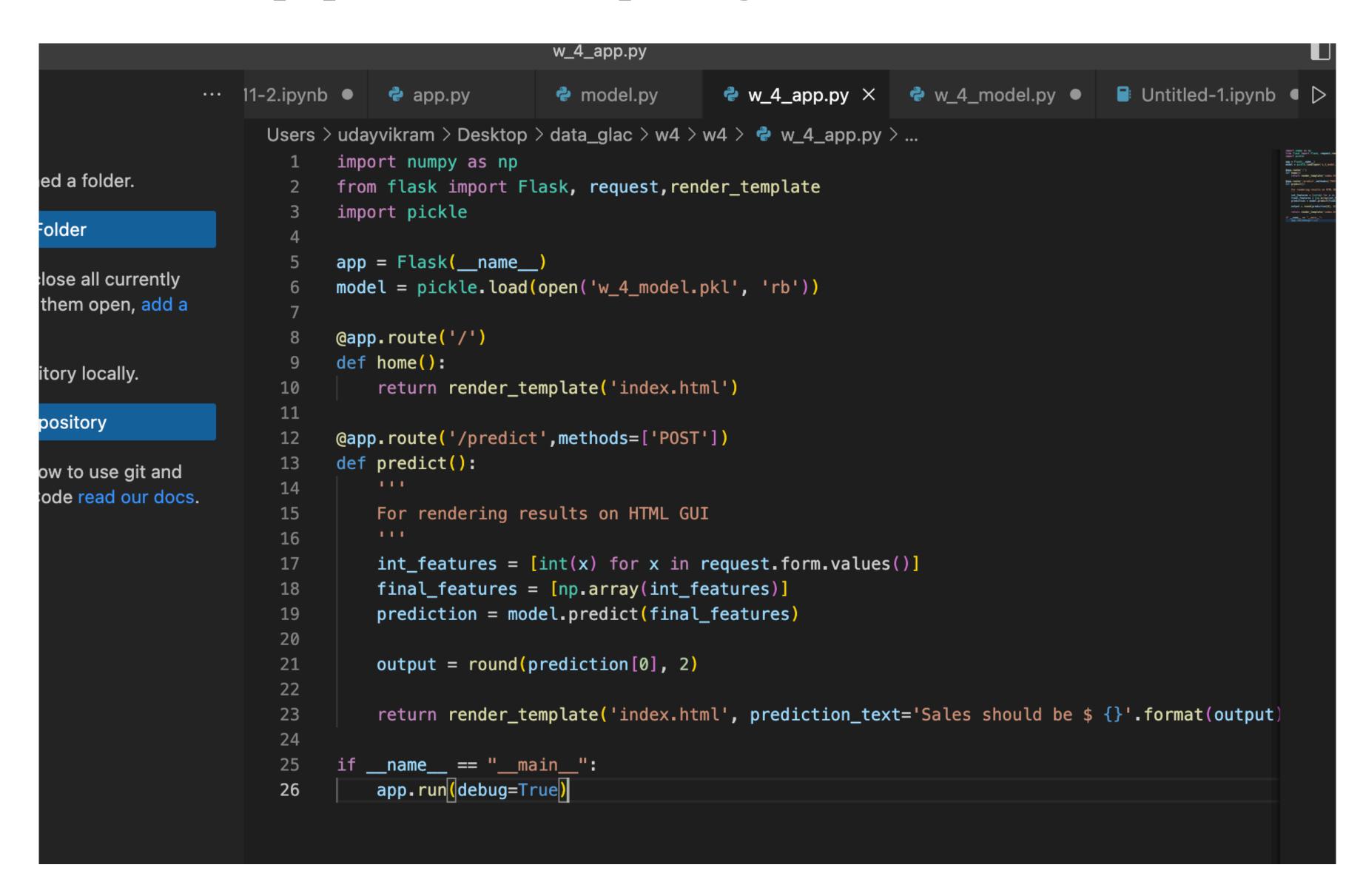
Source: https://www.kaggle.com/datasets/devzohaib/tvmarketingcsv

• 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
```

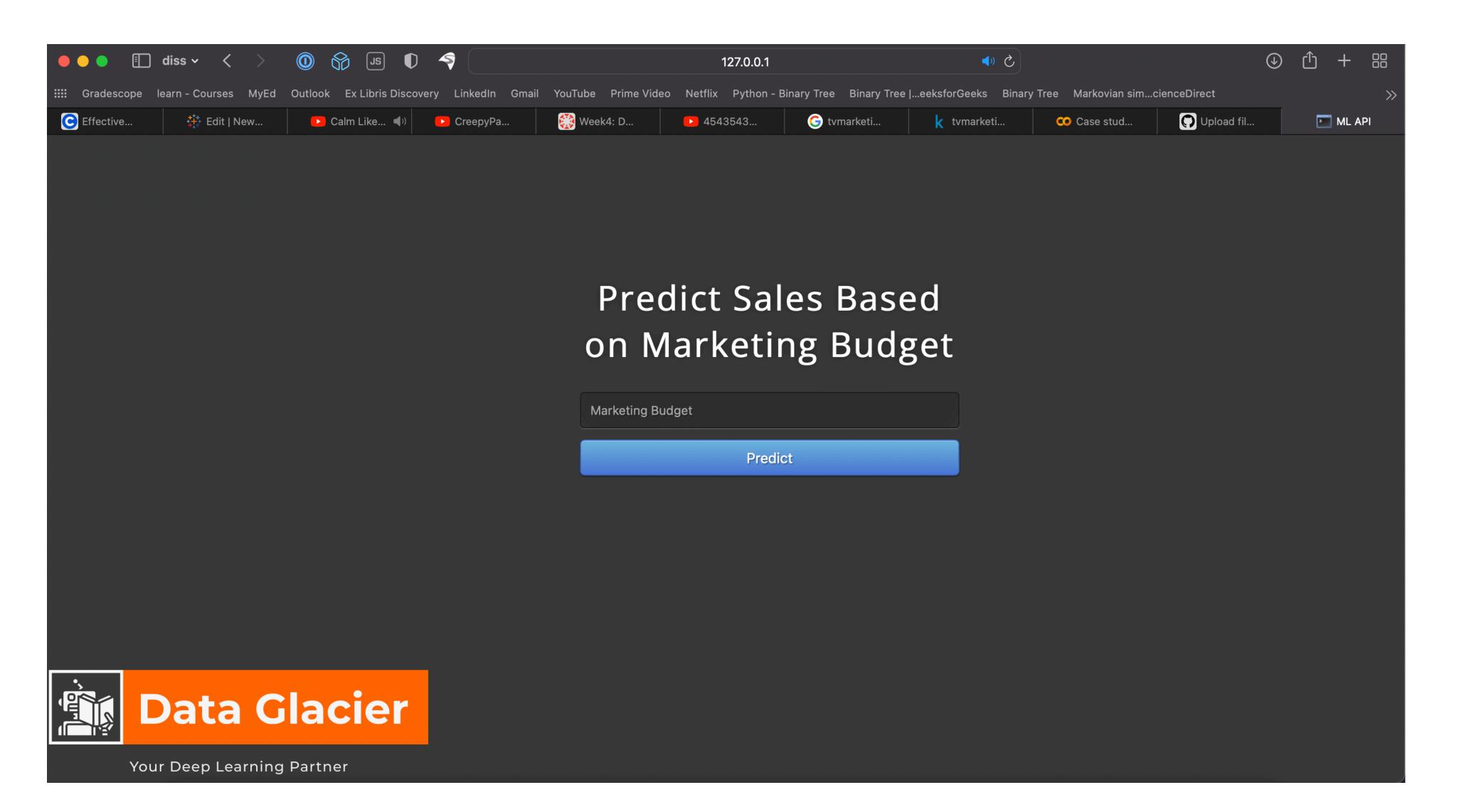
Open directory in command line and run the app

```
■ ■ w4 — -zsh — 145×47

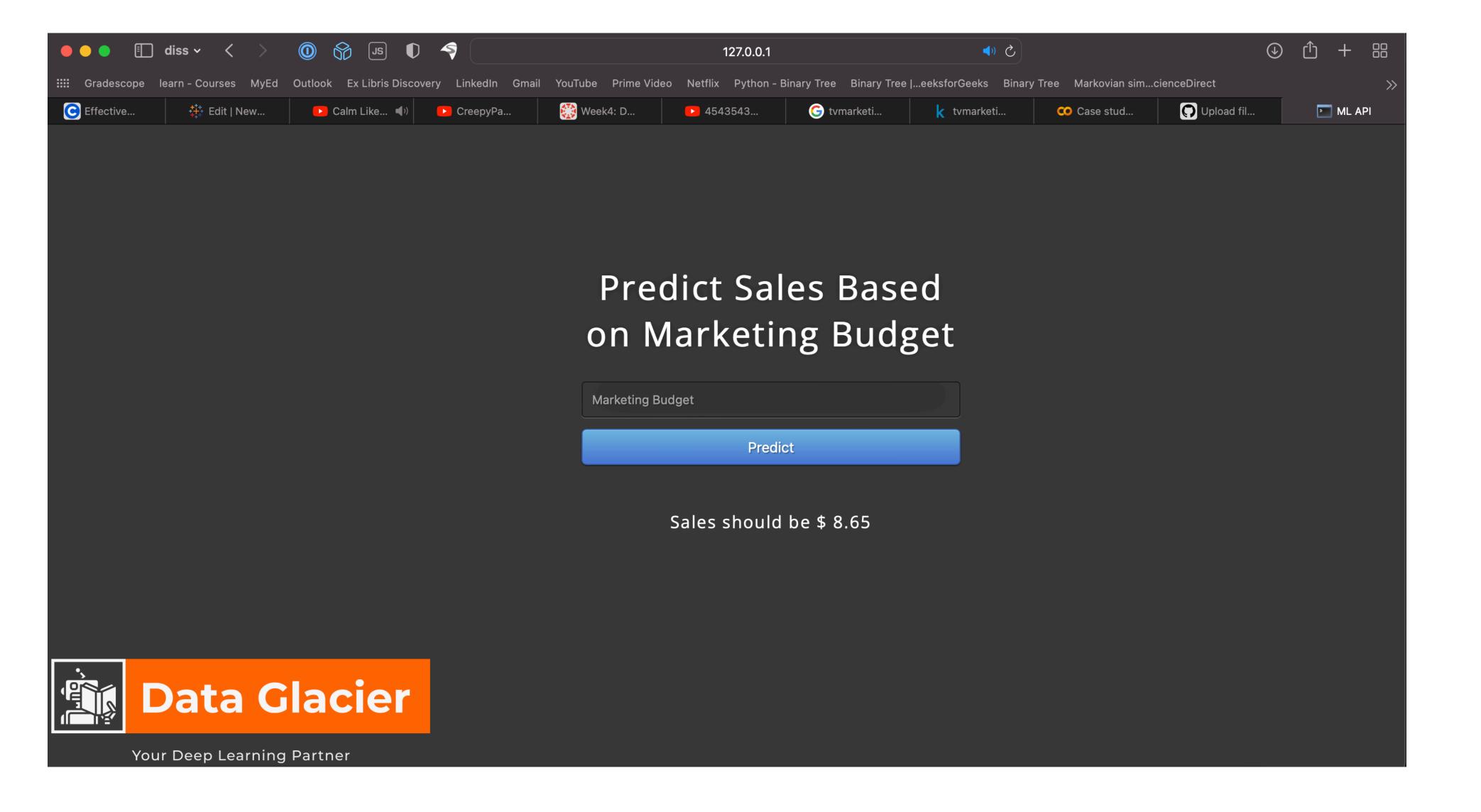
Last login: Sat Jan 28 17:51:20 on ttys000
(base) udayvikram@udays-MacBook-Air w4 %
```

```
w4 — python < python w_4_app.py — 145×47
Last login: Sat Jan 28 17:51:20 on ttys000
(base) udayvikram@udays-MacBook-Air w4 % python w_4_app.py
 * Serving Flask app "w_4_app" (lazy loading)
 * Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
 * Debug mode: on
 * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
 * Restarting with watchdog (fsevents)
 * Debugger is active!
 * Debugger PIN: 135-334-810
```

Open the URL where app is hosted



Try random value to test prediction



Try another random value

