


Model Creation












Heroku_Accou x ACIH - YouTul x Week 5: Clou x Home Page - x app.py - Jupy x model.create x Heroku_Demc x Personal apps x

localhost:8888/notebooks/model.create.ipynb

UPDATE Read [the migration plan](#) to Notebook 7 to learn about the new features and the actions to take if you are using extensions - Please note that updating to Notebook 7 might break some of your extensions. [Don't show anymore](#)

jupyter model.create Last Checkpoint: 03/22/2023 (autosaved)  [Logout](#)

File Edit View Insert Cell Kernel Widgets Help Not Trusted Python 3 (ipykernel)

          Code 

```
In [1]: import pandas as pd
import pickle
from sklearn.linear_model import LinearRegression
from sklearn.model_selection import train_test_split
```

```
In [3]: Coffee = pd.read_excel('C:/Users/14432/Downloads/Coffee_Cosumed.xlsx')
```

```
In [4]: Coffee.head()
```

```
Out[4]:
```

| | Day_No. | Day | Sugar_Cubes | Creamer_amount | Coffee_drunk |
|---|---------|-----------|-------------|----------------|--------------|
| 0 | 1 | Monday | 2 | 2 | 2 |
| 1 | 2 | Tuesday | 3 | 1 | 2 |
| 2 | 3 | Wednesday | 1 | 2 | 1 |
| 3 | 4 | Thursday | 2 | 2 | 2 |
| 4 | 5 | Friday | 1 | 2 | 1 |

```
In [ ]: #The data shows the seven days of the week and the cups of coffee drank on each day of the week along with the amount of cream a
```

```
In [5]: #Linear Regression Model
X = Coffee[['Day_No.', 'Sugar_Cubes', 'Creamer_amount']]
```

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Model Creation

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File Edit View Insert Cell Kernel Widgets Help Not Trusted Python 3 (ipykernel)

In []: *#The data shows the seven days of the week and the cups of coffee drank on each day of the week along with the amount of cream ar*

In [5]: *#Linear Regression Model*
`X = Coffee[['Day_No.', 'Sugar_Cubes', 'Creamer_amount']]`
`y = Coffee['Coffee_drunk']`
`X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3, random_state=101)`

`lm = LinearRegression()`
`lm.fit(X_train,y_train)`

`pickle.dump(lm, open('model.pickle', 'wb'))`

In [6]: `from flask import Flask, jsonify, request`

In [8]: *#Create a flask app*
`app = Flask('Name')`

In []: `@app.route('/', methods ['GET', 'POST'])`

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Create Flask Application

UPDATE Read [the migration plan](#) to Notebook 7 to learn about the new features and the actions to take if you are using extensions - Please note that updating to Notebook 7 might break some of your extensions. [Don't show anymore](#)

jupyter model.create Last Checkpoint: 03/22/2023 (autosaved) [Python 3 \(ipykernel\)](#) [Logout](#)

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Not Trusted

```
app = Flask(__name__)

In [ ]: @app.route('/', methods ['GET', 'POST'])
def home():
    if(request.method == 'GET'):
        data = "Hello"
        return jsonify({'data' : data})

@app.route('/predict/')
def coffee_consumed():
    model = pickle.load(open('model.pickle', 'rb'))
    Day_No. = request.args.get('Day_No.')
    Sugar_Cubes. = request.args.get('Sugar_Cubes')
    Creamer_amount = request.args.get('Creamer_amount')

    test_df = pd.DataFrame({'Day_No.':[Day_No.], 'Sugar_Cubes':[Sugar_Cubes], 'Creamer_Amount':[Creamer_amount]})
    coffee_cups = model.predict(test_df)
    return jsonify({'Coffee_drunk':str(coffee_cups)})
```

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Create Flask Application

The screenshot shows a web browser window with multiple tabs. The active tab is 'app.py - Jupyter'. The address bar shows 'localhost:8888/notebooks/app.py.ipynb'. A notification banner at the top reads: 'UPDATE Read the migration plan to Notebook 7 to learn about the new features and the actions to take if you are using extensions - Please note that updating to Notebook 7 might break some of your extensions. Don't show anymore'. The Jupyter interface header shows 'jupyter app.py' and 'Last Checkpoint: Last Thursday at 11:54 AM (autosaved)'. A 'Logout' button is in the top right. Below the header is a menu bar with 'File', 'Edit', 'View', 'Insert', 'Cell', 'Kernel', 'Widgets', and 'Help'. To the right of the menu bar are 'Not Trusted' and 'Python 3 (ipykernel)' labels. A toolbar contains icons for file operations, navigation, and execution. The main area displays two code cells:

```
In [1]: import pandas as pd
import numpy as np
from flask import Flask, request, jsonify, render_template
import pickle

In [4]: app = Flask(__name__)
model = pickle.load(open('model.pickle', 'rb'))

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

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

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

    output = np.round(prediction[0], 2)

    return render_template('index.html', prediction_text = "Coffee Consumed: {} Cups".format(output[0]))

if __name__ == '__main__':
    app.run(debug=True)
```

The Windows taskbar at the bottom shows the search bar, task view, and several application icons. The system clock in the bottom right corner displays '10:16 AM 3/29/2023'.

Create Template

Browser tabs: LISU x 4543 x Week x Hero x Editir x Articl x Powe x Pres x clean x Data x herol x Com x

Address bar: https://github.com/Ebaghae/Heroku_Demo/blob/main/Template

File size: 29 lines (26 sloc) | 1.06 KB

Actions: Raw Blame Edit Copy Delete

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset = "UTF-8">
5 <title>ML API</title>
6 <link href = 'https://fontsgoogleapis.com/css?family=Pacifico' rel='stylesheet' type='text/css'>
7 <link href = 'https://fontsgoogleapis.com/css?family=Arimo' rel='stylesheet' type='text/css'>
8 <link href = 'https://fontsgoogleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'>
9 <link href = 'https://fontsgoogleapis.com/css?family=Open+Sans+Condensed:300' rel='stylesheet' type='text/css'>
10 <link rel="stylesheet" href="{{url_for('static', filename='css/style.css')}}">
11
12 </head>
13
14 <body>
15 <div class="login">
16 <h1>Predict Coffee Consumption</h1>
17 <form action = "{{url_for('predict')}}" method="post">
18 <input type="text" name="Sugar_Cubes" placeholder="Sugar_Cubes" required="required"/>
19 <input type="text" name="Day_No." placeholder="Day_No." required="required"/>
20 <input type="text" name="Creamer_amount" placeholder="Creamer_Amount" required="required"/>
21
22 <button type="submit" class="btn btn=primary btn-block btn-large">Predict</button>
23 </form>
24 <br>
25 <br>
26 {{prediction_text}}
27 </div>
28 </body>
29 </html>
```

Windows taskbar: Type here to search, 37°F, 1:37 PM 3/30/2023

Upload Files on Github

The screenshot shows a web browser with multiple tabs open, including 'Heroku_Accou...', 'ACIH - YouTui...', 'Week 5: Clouc...', 'Home Page -', 'app.py - Jupyr...', 'model.create', 'Heroku_Demo', and 'Personal apps'. The address bar shows the URL 'https://github.com/Ebaghae/Heroku_Demo'. The GitHub interface displays the repository 'Ebaghae / Heroku_Demo' as public. It includes navigation links for 'Pull requests', 'Issues', 'Codespaces', 'Marketplace', and 'Explore'. A search bar is present with the text 'Search or jump to...'. Below the repository name, there are buttons for 'Pin', 'Unwatch' (1), 'Fork' (0), and 'Star' (0). The main navigation bar includes 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. The repository's main branch is 'main', with 1 branch and 0 tags. A 'Go to file' button and an 'Add file' dropdown are visible. The file list shows a commit by 'Ebaghae' titled 'Add files via upload' from yesterday, with 2 commits. The files listed are: 'Coffee_Cosumed.xlsx', 'LICENSE', 'README.md', 'app.py.py', 'model.create.py', 'model.pickle', 'requirements.txt', 'static-20230328T171409Z-001.zip', and 'templates-20230328T171424Z-001.zip'. The 'About' section describes the repository as 'files for model deployment on heroku' and lists 'Readme', 'MIT license', '0 stars', '1 watching', and '0 forks'. The 'Releases' section states 'No releases published' with a link to 'Create a new release'. The 'Packages' section states 'No packages published' with a link to 'Publish your first package'. The Windows taskbar at the bottom shows the search bar, task view, and several application icons, along with system tray icons for weather (44°F), network, and time (10:16 AM, 3/29/2023).

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https://github.com/Ebaghae/Heroku_Demo

Search or jump to... / Pull requests Issues Codespaces Marketplace Explore

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Pin Unwatch 1 Fork 0 Star 0

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Go to file Add file <> Code

Ebaghae Add files via upload 44b566e yesterday 2 commits

| | | |
|------------------------------------|----------------------|-----------|
| Coffee_Cosumed.xlsx | Add files via upload | yesterday |
| LICENSE | Initial commit | yesterday |
| README.md | Initial commit | yesterday |
| app.py.py | Add files via upload | yesterday |
| model.create.py | Add files via upload | yesterday |
| model.pickle | Add files via upload | yesterday |
| requirements.txt | Add files via upload | yesterday |
| static-20230328T171409Z-001.zip | Add files via upload | yesterday |
| templates-20230328T171424Z-001.zip | Add files via upload | yesterday |

About

files for model deployment on heroku

Readme MIT license 0 stars 1 watching 0 forks

Releases

No releases published
[Create a new release](#)

Packages

No packages published
[Publish your first package](#)

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Create Heroku Account

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https://dashboard.heroku.com/apps

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HEROKU

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Connect Heroku to Github

Heroku_Linkin x LGTH - YouTu x Week 5: Clou x Home Page - x app.py - Jupy x model.create x Ebaghae/Her x heroku-demo x

https://dashboard.heroku.com/apps/heroku-demoapp/deploy/github

Salesforce Platform

HEROKU

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

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

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 Connect to GitHub

Container Registry Use Heroku CLI

Connect to GitHub

Connect this app to GitHub to enable code diffs and deploys.

Search for a repository to connect to

Ebaghae Heroku_Demo Search

Missing a GitHub organization? [Ensure Heroku Dashboard has team access.](#)

Ebaghae/Heroku_Demo Connect

Type here to search

10:37 AM 3/29/2023

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 44b566e8

✓

Release phase

✓

Deploy to Heroku

✓

Your app was successfully deployed.

View

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