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LISUM03
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```
app.py x index.html x model.py x scratch_1.py x
./On
/ML
5 app = Flask(__name__)
6
7
8 @app.route('/')
9 def home():
10     return render_template('index.html')
11
12
13 @app.route('/predict/')
14 def price_predict():
15     model = pickle.load(open('model.pickle', 'rb'))
16     age = request.args.get('Age')
17     experience = request.args.get('Experience')
18     income = request.args.get('Income')
19     zip_code = request.args.get('Zip_code')
20     family = request.args.get('Family')
21     cCAvg = request.args.get('CCAvg')
22     education = request.args.get('Education')
23
24     test_df = pd.DataFrame(
25         {'Age': [age], 'Experience': [experience], 'Income': [income], 'Zip_code': [zip_code], 'Family': [family],
26          'CCAvg': [cCAvg],
27          'Education': [education]})
28
29     predict = model.predict(test_df)
30
31     return jsonify({'Loan approved': str(predict)})
32
33
34 if __name__ == '__main__':
35     app.run(debug=True)
```

```
app.py x index.html x model.py x scratch_1.py x
1 <!DOCTYPE html>
2 <html >
3 <head>
4 <meta charset="UTF-8">
5 <title>ML API</title>
6 <link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">
7
8 </head>
9
10 <body>
11 <div class="Login">
12 <h1>Predict Loan Approval </h1>
13 <form action="{{url_for('predict')}}" method="post">
14 <input type="text" name="age" placeholder="Age" required="required" />
15 <input type="text" name="experience" placeholder="experience" required="required" />
16 <input type="text" name="income" placeholder="income" required="required" />
17 <input type="text" name="zip_code" placeholder="zip_code" required="required" />
18 <input type="text" name="family" placeholder="family" required="required" />
19 <input type="text" name="cCAvg" placeholder="cCAvg" required="required" />
20 <input type="text" name="education" placeholder="education" required="required" />
21
22 <button type="submit" name="btn btn-primary btn-large">Predict</button>
23 </form>
24
25
26
27 <br>
28 <br>
29 {{ prediction_text }}
30 </div>
31
32 </body>
33 </html>
```

html > body > div.Login

```
app.py × index.html × model.py × scratch_1.py ×
▶ I > 🔧
1 import pandas as pd
2 import pickle
3 from sklearn.model_selection import train_test_split
4 from sklearn.linear_model import LogisticRegression
5
6 Bank_data = pd.read_csv('Bank_Personal_Loan_Modelling.csv')
7 X = Bank_data[['Age', 'Experience', 'Income', 'ZIP Code', 'Family', 'CCAvg', 'Education']]
8
9 y = Bank_data['Personal Loan']
10
11 X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3, random_state=101)
12
13 lm = LogisticRegression()
14 lm.fit(X_train, y_train)
15
16 pickle.dump(lm, open('model.pkl', 'wb'))
17 |
```

```
app.py x index.html x model.py x scratch_1.py x serving.py x
/On
/ML
1 import ...
4
5 # %%
6 app = Flask(__name__)
7 model = pickle.load(open('model.pkl', 'rb'))
8
9
10 # %%
11
12
13 @app.route('/')
14 def home():
15     return render_template('index.html')
16
17
18 # %%
19 @app.route('/predict', methods=['POST'])
20 def predict():
21     """
22     For rendering results on HTML GUI
23     :return:
24     """
25
26     int_feature = []
27     for x in request.form.values():
28         if x != '':
29             int_feature.append(x)
30
31     final_feature = [np.array(int_feature)]
32     prediction = model.predict(final_feature)
33
34     return render_template('index.html', prediction_text='Loan should be {}'.format(prediction[0]))
35
36
37 if __name__ == '__main__':
38     app.run(port=5555, debug=True)
39
```

Postman

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invite

Upgrade

Overview

GET http://127.0.0.1:5000/predict?Age=31&Experience=3&Income=10000&Zip_code=02026&Family=2&CCAvg=2&Education=2

No Environment

Save

Send

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> Age	31	
<input checked="" type="checkbox"/> Experience	3	
<input checked="" type="checkbox"/> Income	10000	
<input checked="" type="checkbox"/> Zip_code	02026	
<input checked="" type="checkbox"/> Family	2	
<input checked="" type="checkbox"/> CCAvg	2	
<input checked="" type="checkbox"/> Education	2	
Key	Value	Description

Body

Cookies

Headers (4)

Test Results

Status: 200 OK

Time: 68 ms

Size: 174 B

Save Response

Pretty

Raw

Preview

Visualize

JSON

```
1  "Loan approved": "[1]"
2
3
```

Find and Replace

Console

Bootcamp

Runner

Trash

127.0.0.1:5655/predict

Apps

OpenU

ACCENT MAKEOV...

Beyond

Programing

OpenU

Shops

Data Sci.

ENG.

Processing Times

Free eBooks

EdClub

Other Bookmarks

Reading List

Predict Loan Approval

31

2

10000

02026

2

2

2

Predict

Loan should be 1