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1. To develop this project I have created 3 files
2. Ml.ipynb which contains code to build and evaluate model which I have imported using exported using pickle library

main.py | index.html | ml.ipynb

static > ml.ipynb > df = pd.read_csv('C:/Users/vaish/workspace/IceCreamData.csv')

+ Code + Markdown | Run All | Clear All Outputs | Restart | Variables | Outline ...

```
import pandas as pd
import numpy as np
import pickle
from sklearn.linear_model import LinearRegression
from sklearn.model_selection import train_test_split
from sklearn.metrics import r2_score
```

[53]

```
df = pd.read_csv('C:/Users/vaish/workspace/IceCreamData.csv')
```

[54]

```
df.head()
```

[57]

	Temperature	Revenue
0	24	534
1	26	625
2	27	660
3	20	487
4	11	316

3.
4. Index.html file which contains code for user interface where user can enter the temperature and the revenue gets predicted based on that.

main.py | index.html | ml.ipynb

.venv > templates > index.html > html > body > form > button

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Machine Learning Model</title>
</head>
<body>
    <form action="{{url_for('predict')}}" method ="post">
        <input type ='text' name="temperature" placeholder = 'Enter Temperature: '></input>
        <button type="'submit">Predict</button>
    </form>
    <h3><br>{{prediction_text}}</h3>
</body>
</html>
```

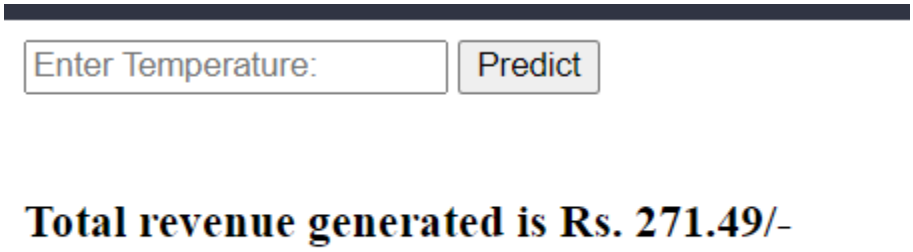
5. Main.py file where I have imported both model and user interface and deployed with the help of flask

main.py | index.html | ml.ipynb

.venv > main.py > ...

```python
import pickle
from flask import Flask, render_template, request


app = Flask(__name__)
model = pickle.load(open('C:/Users/vaish/workspace/static/model.pkl', 'rb'))

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

@app.route('/predict' , methods=['GET', 'POST'])
def predict():
    prediction = model.predict([[int(request.form.get('temperature'))]])
    output = round(prediction[0], 2)
    print(prediction)
    return render_template('index.html', prediction_text= f'Total revenue generated is Rs. {output}/-')

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

6. And this is how the output looks:



Total revenue generated is Rs. 271.49/-

Thank You.