

**Queen Echerenwa**

**Data Glacier Internship**

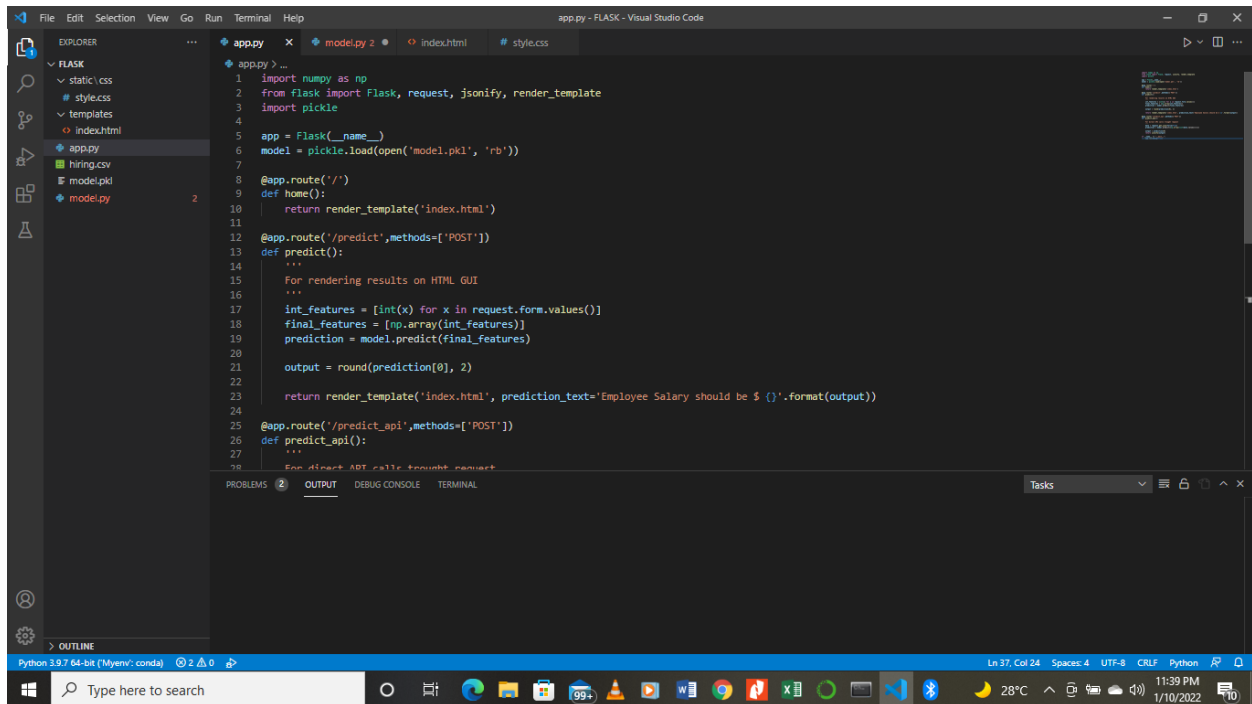
**Batch Code: LISUM04**

**September to December**

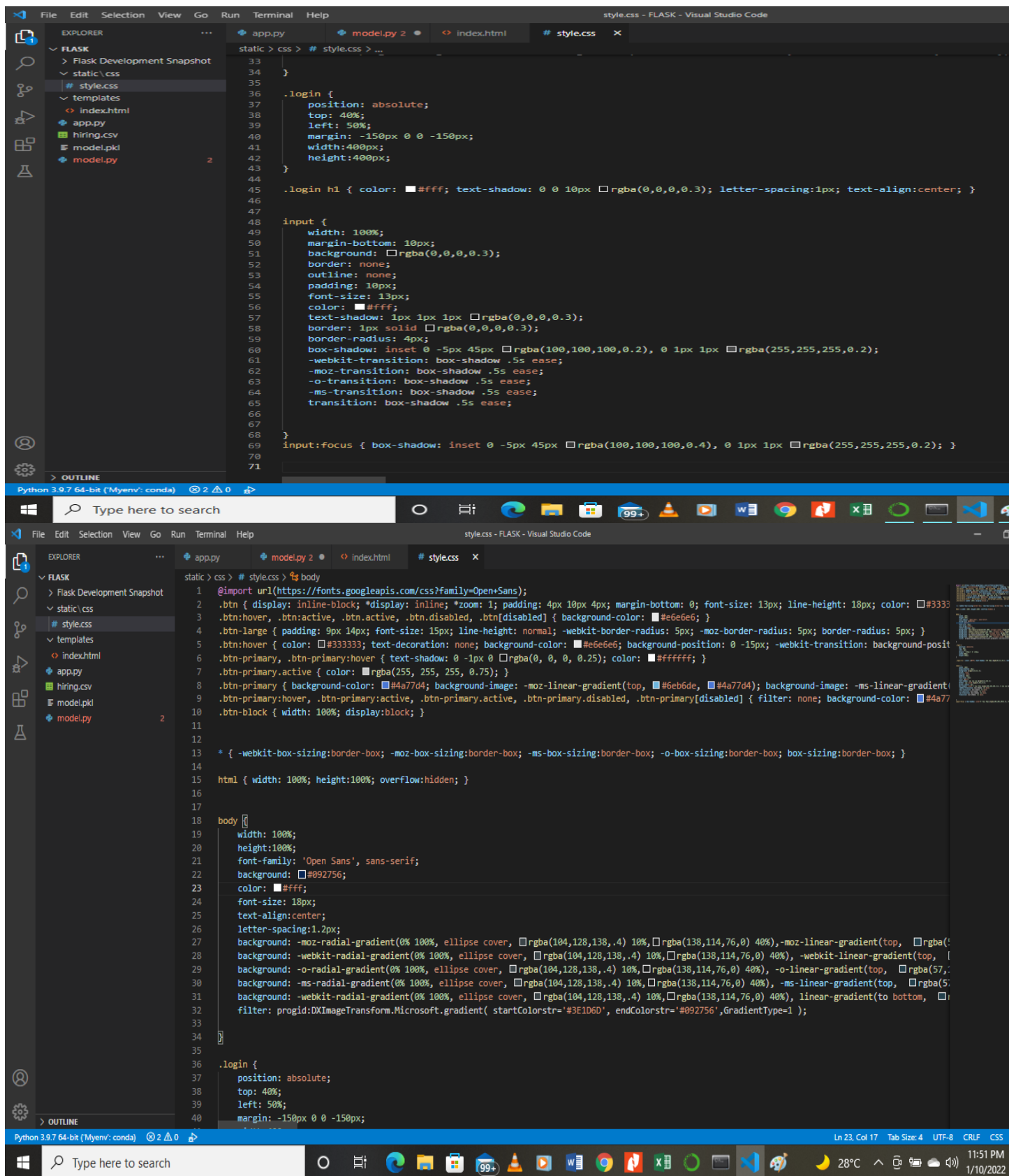
**Uploaded to**

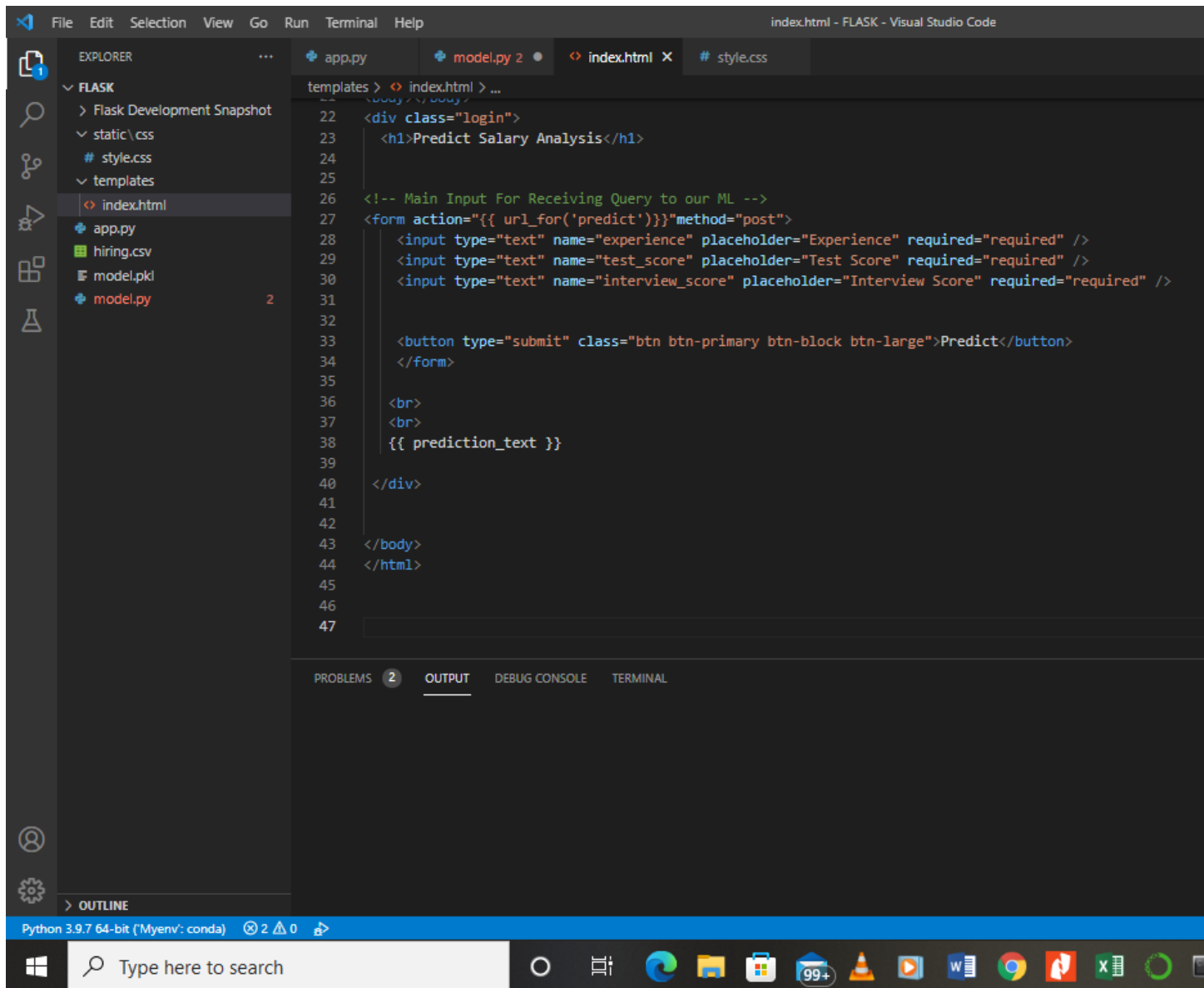
**<https://github.com/QuinAmii/Flask-App-Data-Glacier.git>**

**Development on Flask**



```
1 import numpy as np
2 from flask import Flask, request, jsonify, render_template
3 import pickle
4
5 app = Flask(__name__)
6 model = pickle.load(open('model.pkl', 'rb'))
7
8 @app.route('/')
9 def home():
10     return render_template('index.html')
11
12 @app.route('/predict', methods=['POST'])
13 def predict():
14     """
15     For rendering results on HTML GUI
16     """
17     int_features = [int(x) for x in request.form.values()]
18     final_features = [np.array(int_features)]
19     prediction = model.predict(final_features)
20
21     output = round(prediction[0], 2)
22
23     return render_template('index.html', prediction_text='Employee Salary should be {}'.format(output))
24
25 @app.route('/predict_api', methods=['POST'])
26 def predict_api():
27     """
28     For direct API calls without GUI
29     """
```



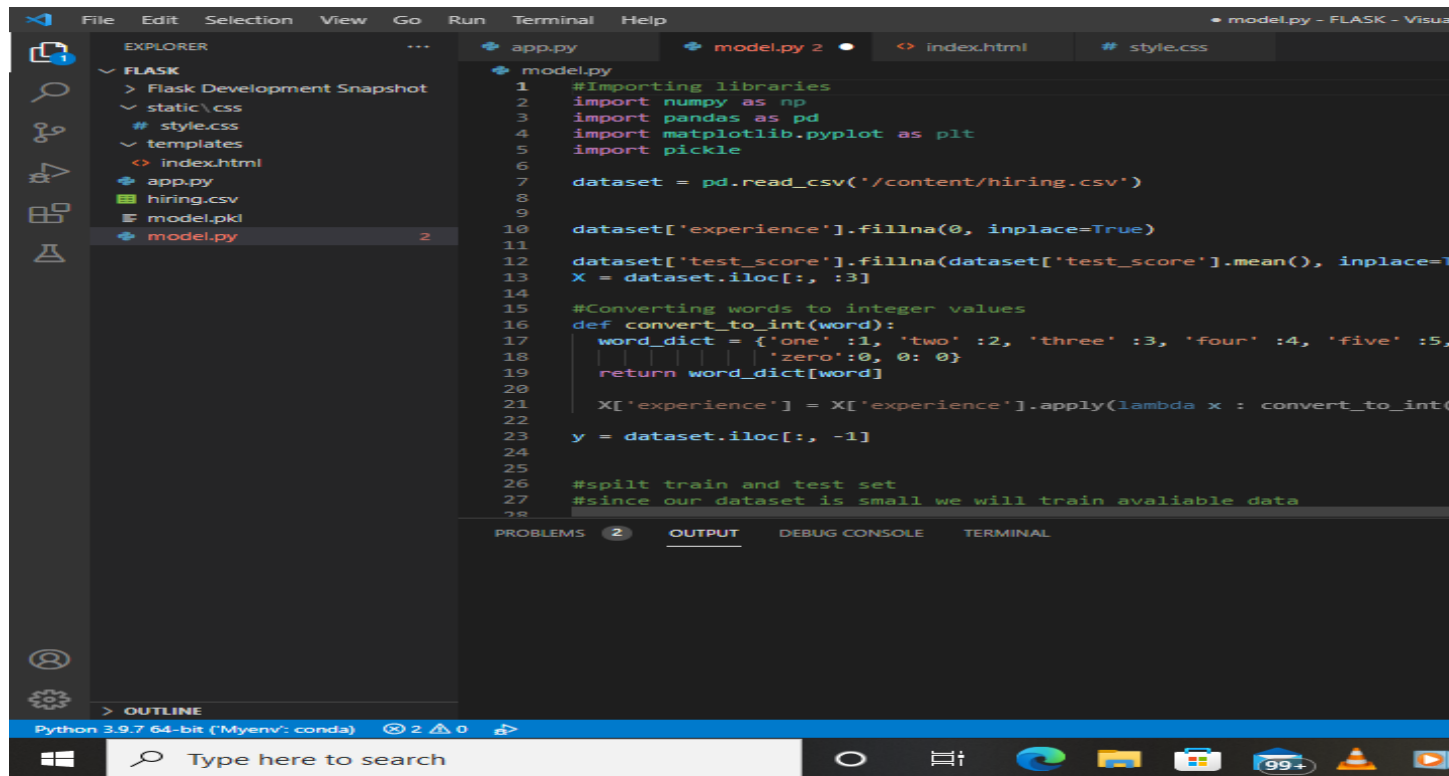


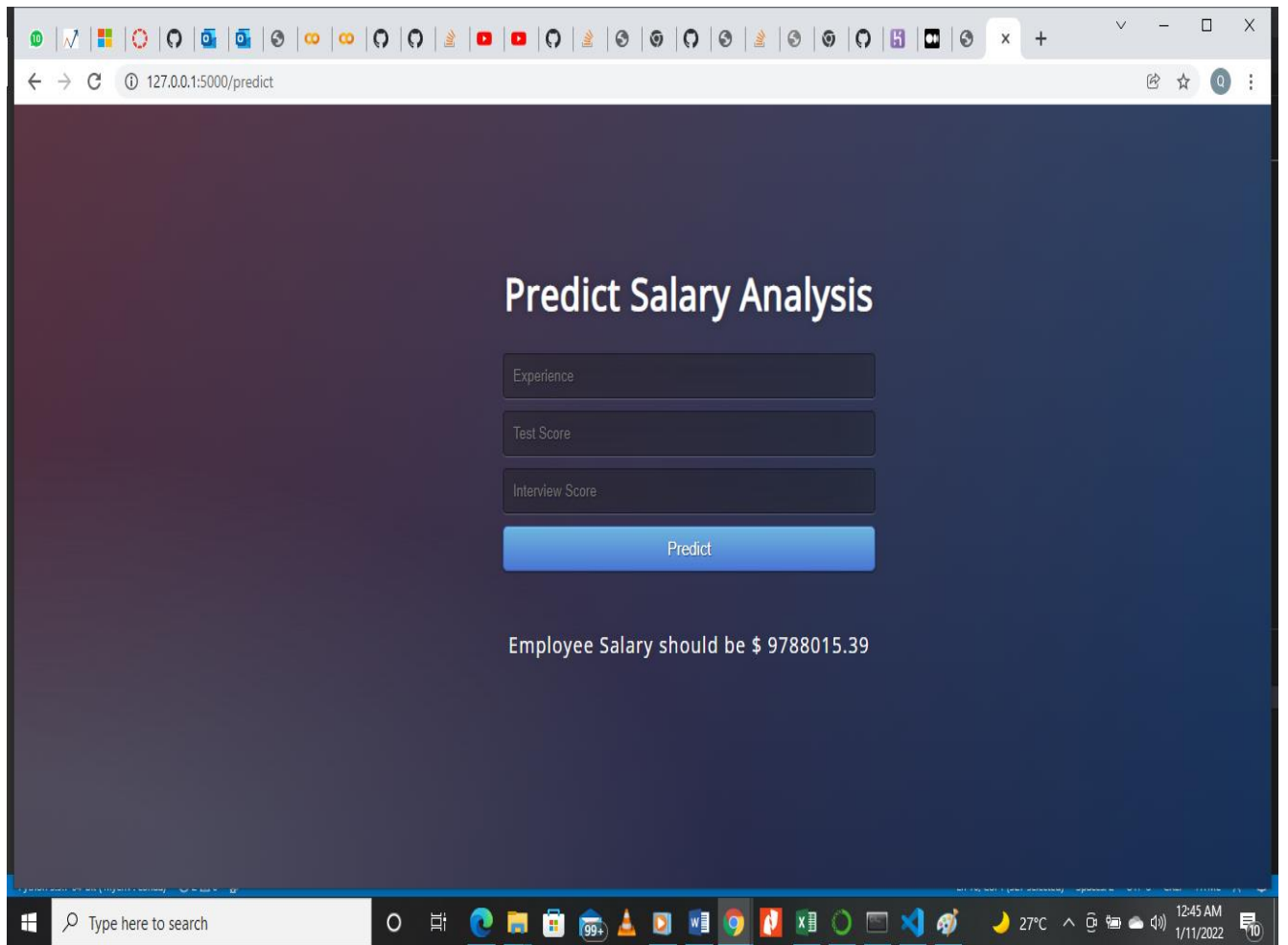
This screenshot shows the Visual Studio Code editor with the `index.html` file open. The Explorer sidebar on the left shows the project structure for a Flask application, including `static/css`, `templates`, `app.py`, `hiring.csv`, `model.pkl`, and `model.py`. The main editor area displays the HTML code for `index.html`, which includes a DOCTYPE declaration, a meta charset of UTF-8, a title "ML API", and several links to Google Fonts (Pacifico, Arimo, Hind:300, and Open+Sans+Condensed:300). It also includes a link to a local `style.css` file. The body contains a `div class="login"` with an `h1>Predict Salary Analysis</h1> and a form for receiving queries to the ML model.`

```
1 <!DOCTYPE html>
2
3 <html ></html>
4
5 <!-- From https://codepen.io/frytyler/pen/EGdtg-->
6
7
8 <head></head>
9
10 <meta charset="UTF-8">
11 <title>ML API</title>
12 <link href="https://fonts.googleapis.com/css?family=Pacifico" rel="stylesheet" type="text/css">
13 <link href="https://fonts.googleapis.com/css?family=Arimo" rel="stylesheet" type="text/css">
14 <link href="https://fonts.googleapis.com/css?family=Hind:300" rel="stylesheet" type="text/css">
15 <link href="https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300" rel="stylesheet" type="text/css">
16 <link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">
17
18
19 </head>
20
21 <body></body>
22 <div class="login">
23   <h1>Predict Salary Analysis</h1>
24
25
26   <!-- Main Input For Receiving Query to our ML -->
27   <form action="{{ url_for('predict') }}" method="post">
28     <input type="text" name="experience" placeholder="Experience" required />
29   </form>
```

This screenshot shows the Visual Studio Code editor with the `model.py` file open. The Explorer sidebar on the left shows the project structure, with `model.py` selected. The main editor area displays the Python code for `model.py`, which includes imports for `sklearn.linear_model` and `pickle`. The code defines a `LinearRegression` regressor, fits it with training data (`X` and `y`), saves the model to `model.pkl`, and loads it back to compare results.

```
25
26 #split train and test set
27 #since our dataset is small we will train available data
28
29 from sklearn.linear_model import LinearRegression
30 regressor = LinearRegression()
31
32 #fitting model with train dataset
33 regressor.fit(X, y)
34
35 #Saving model to disk
36 pickle.dump(regressor, open('model.pkl', 'wb'))
37
38
39 #loading model to compare results
40 model = pickle.load(open('model.pkl', 'rb'))
41
42
43
44
45
46
47
48
49
50
51
```





index.html - FLASK - Visual Studio Code

EXPLORER

- FLASK
  - Flask Development Snapshot
    - static
      - css
        - style.css
- templates
  - index.html
- ~\$ask Development (Web).doc
- app.py
- Flask Development (Web).doc
- Flask Development (Web).pdf
- hiring.csv
- model.pkl
- model.py

templates > index.html > meta

```
1 <!DOCTYPE html>
2
3 <html></html>
4
5 <!-- From https://codepen.io/frytyler/pen/EGdtg-->
6
7
8 <head></head>
9
10 <meta charset="UTF-8">
11 <title>ML API</title>
12
13 <link href="https://fonts.googleapis.com/css?family=Pacifico" rel="stylesheet" type="text/css">
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16 <link href="https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300" rel="stylesheet" type="text/css">
17 <link rel="stylesheet" href="{ url_for('static', filename='css/style.css') }">
18
19 </head>
20
21 <body></body>
22 <div class="login">
23   <h1>Predict Salary Analysis</h1>
24
25
26 <!-- Main Input For Receiving Query to our ML -->
27 <form action="{ url_for('predict') }}" method="post">
28   <input type="text" name="employee" placeholder="Employee name" required="required" />
29
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL

```
warnings.warn(
* Debugger is active!
* Debugger PIN: 741-496-442
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [11/Jan/2022 00:35:34] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [11/Jan/2022 00:35:34] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [11/Jan/2022 00:35:37] "GET /static/css/style.css HTTP/1.1" 200 -
127.0.0.1 - - [11/Jan/2022 00:35:38] "GET /favicon.ico HTTP/1.1" 404 -
127.0.0.1 - - [11/Jan/2022 00:36:56] "POST /predict HTTP/1.1" 200 -
127.0.0.1 - - [11/Jan/2022 00:36:56] "GET /static/css/style.css HTTP/1.1" 304 -
```

Python 3.9.7 64-bit (Myenv: conda) 2 0

Type here to search

Ln 10, Col 1 (527 selected) Spaces: 2 UTF-8 CRLF HTML

27°C 12:41 AM 1/11/2022