Queen Echerenwa

Data Glacier Internship

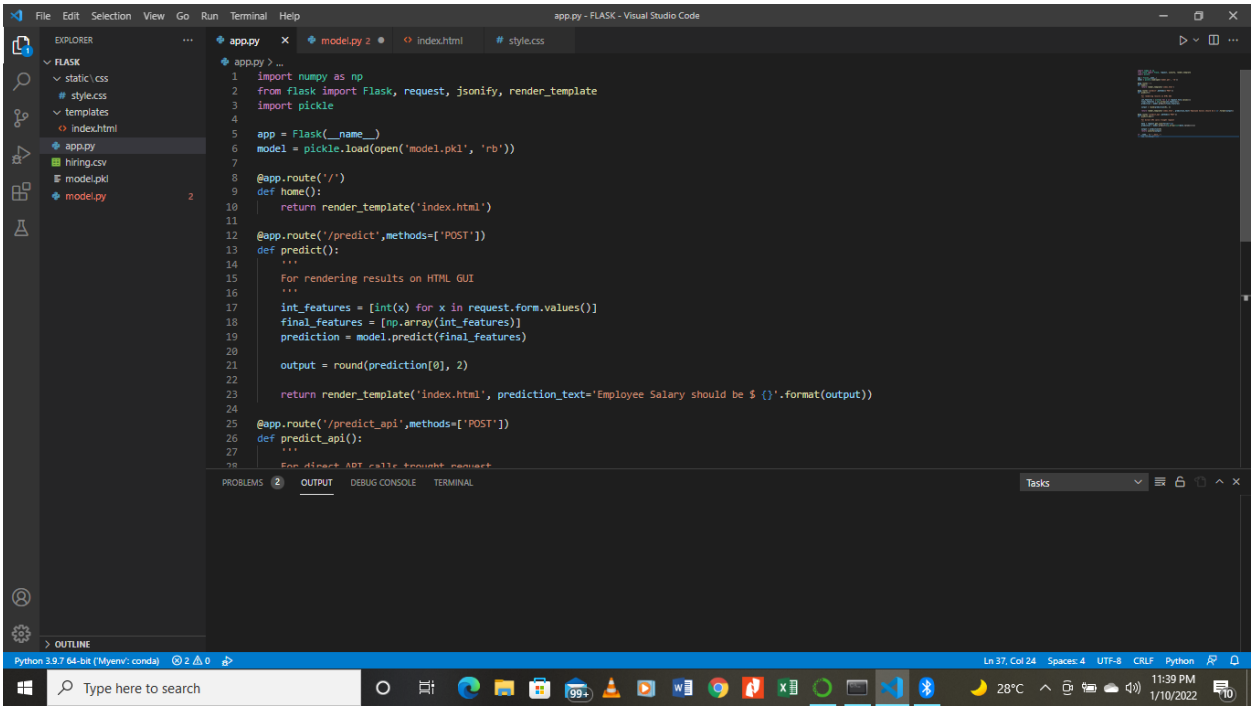
Batch Code: LISUM04

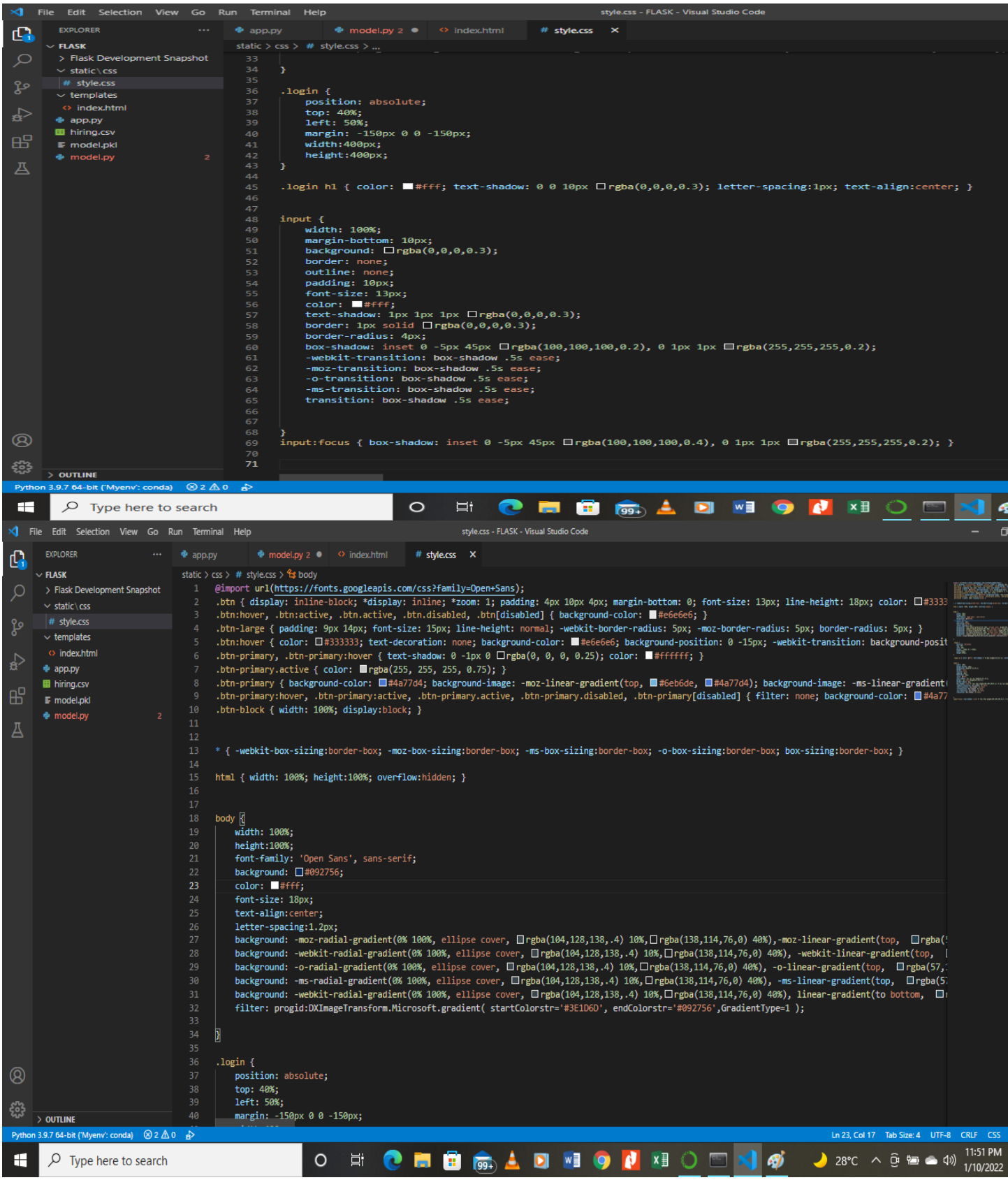
September to December

Uploaded to

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

Development on Flask




File Edit Selection View Go Run Terminal Help
style.css - FLASK - Visual Studio Code
EXPLORER
FLASK
Flask Development Snapshot
static\css
style.css
templates
index.html
app.py
hiring.csv
model.pkl
model.py
app.py
model.py 2
index.html
style.css
static > css > style.css > ...
.login {
position: absolute;
top: 40%;
left: 50%;
margin: -150px 0 0 -150px;
width:400px;
height:400px;
}
.login h1 { color: #fff; text-shadow: 0 0 10px rgba(0,0,0,0.3); letter-spacing:1px; text-align:center; }
input {
width: 100%;
margin-bottom: 10px;
background: rgba(0,0,0,0.3);
border: none;
outline: none;
padding: 10px;
font-size: 13px;
color: #fff;
text-shadow: 1px 1px 1px rgba(0,0,0,0.3);
border: 1px solid rgba(0,0,0,0.3);
border-radius: 4px;
box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
-webkit-transition: box-shadow .5s ease;
-moz-transition: box-shadow .5s ease;
-o-transition: box-shadow .5s ease;
-ms-transition: box-shadow .5s ease;
transition: box-shadow .5s ease;
}
input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px rgba(255,255,255,0.2); }
OUTLINE
Python 3.9.7 64-bit ('Myenv': conda)
Type here to search
@import url(https://fonts.googleapis.com/css?family=Open+Sans);
.btn { display: inline-block; *display: inline; *zoom: 1; padding: 4px 10px 4px; margin-bottom: 0; font-size: 13px; line-height: 18px; color: #333
.btn:hover, .btn:active, .btn.active, .btn.disabled, .btn[disabled] { background-color: #e6e6e6; }
.btn-large { padding: 9px 14px; font-size: 15px; line-height: normal; -webkit-border-radius: 5px; -moz-border-radius: 5px; border-radius: 5px; }
.btn:hover { color: #333333; text-decoration: none; background-color: #e6e6e6; background-position: 0 -15px; -webkit-transition: background-posit
.btn-primary, .btn-primary:hover { text-shadow: 0 -1px 0 rgba(0, 0, 0, 0.25); color: #ffffff; }
.btn-primary.active { color: rgba(255, 255, 255, 0.75); }
.btn-primary { background-color: #4a77d4; background-image: -moz-linear-gradient(top, #6eb6de, #4a77d4); background-image: -ms-linear-gradient(
.btn-primary:hover, .btn-primary:active, .btn-primary.active, .btn-primary.disabled, .btn-primary[disabled] { filter: none; background-color: #4a77
.btn-block { width: 100%; display:block; }
* { -webkit-box-sizing:border-box; -moz-box-sizing:border-box; -ms-box-sizing:border-box; -o-box-sizing:border-box; box-sizing:border-box; }
html { width: 100%; height:100%; overflow:hidden; }
body {
width: 100%;
height:100%;
font-family: 'Open Sans', sans-serif;
background: #092756;
color: #fff;
font-size: 18px;
text-align:center;
letter-spacing:1.2px;
background: -moz-radial-gradient(0% 100%, ellipse cover, rgba(104,128,138,.4) 10%,rgba(138,114,76,0) 40%),-moz-linear-gradient(top,
background: -webkit-radial-gradient(0% 100%, ellipse cover, rgba(104,128,138,.4) 10%,rgba(138,114,76,0) 40%), -webkit-linear-gradient(top,
background: -o-radial-gradient(0% 100%, ellipse cover, rgba(104,128,138,.4) 10%,rgba(138,114,76,0) 40%), -o-linear-gradient(top,
background: -ms-radial-gradient(0% 100%, ellipse cover, rgba(104,128,138,.4) 10%,rgba(138,114,76,0) 40%), -ms-linear-gradient(top,
background: -webkit-radial-gradient(0% 100%, ellipse cover, rgba(104,128,138,.4) 10%,rgba(138,114,76,0) 40%), linear-gradient(to bottom,
filter: progid:DXImageTransform.Microsoft.gradient(startColorstr='#3E1D6D', endColorstr='#092756',GradientType=1);
}
.login {
position: absolute;
top: 40%;
left: 50%;
margin: -150px 0 0 -150px;
Ln 23, Col 17 Tab Size: 4 UTF-8 CRLF CSS
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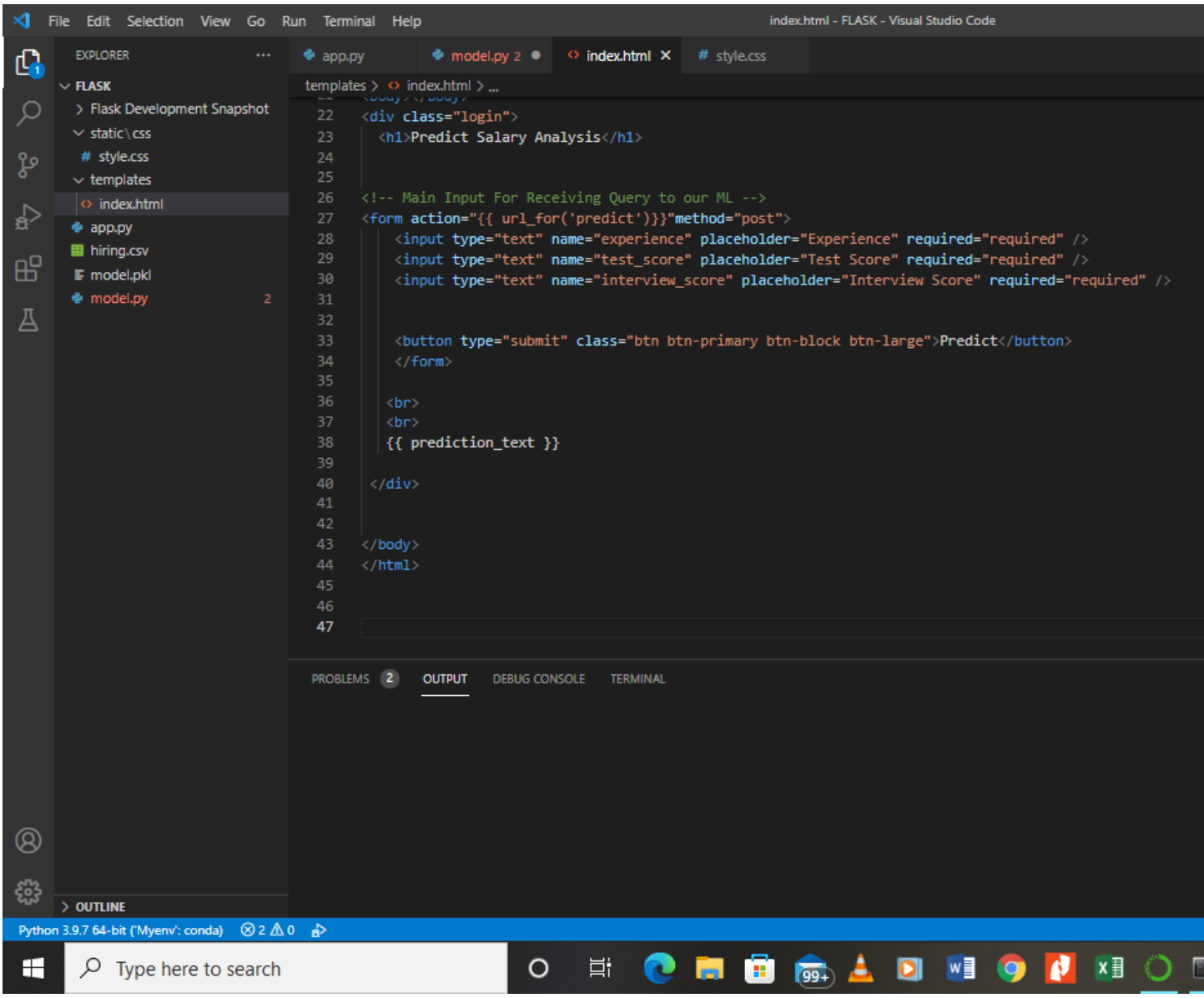
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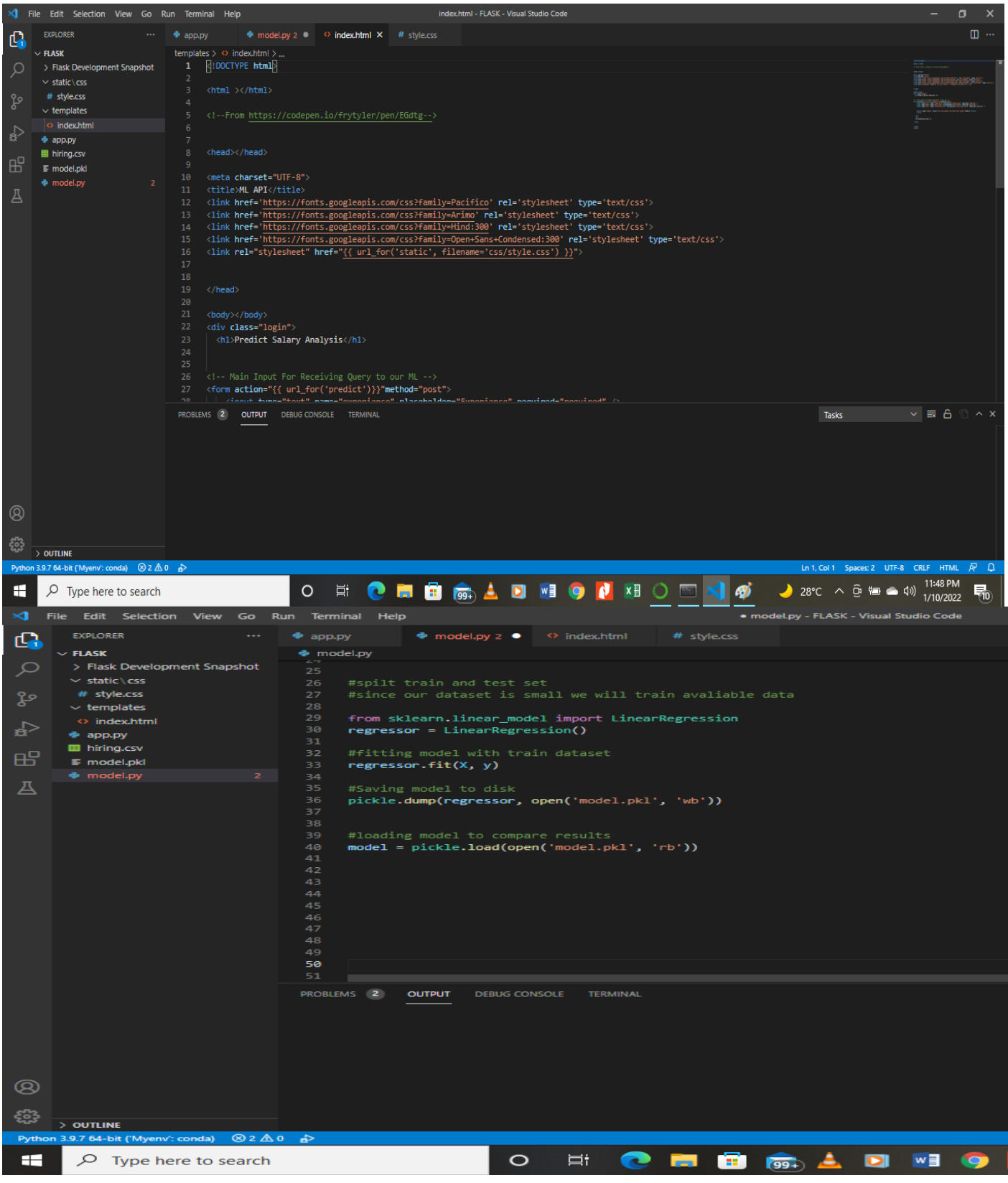
templates > index.html > ...

<h1>Predict Salary Analysis</h1>
<!-- Main Input For Receiving Query to our ML -->
<form action="{{ url_for('predict')}}"method="post">
<input type="text" name="experience" placeholder="Experience" required="required" />
<input type="text" name="test_score" placeholder="Test Score" required="required" />
<input type="text" name="interview_score" placeholder="Interview Score" required="required" />
<button type="submit" class="btn btn-primary btn-block btn-large">Predict</button>
</form>

{{ prediction_text }}

</body>
</html>
PROBLEMS 2
OUTPUT
DEBUG CONSOLE
TERMINAL
OUTLINE
Python 3.9.7 64-bit ('Myenv': conda)
Type here to search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index.html
style.css
templates > index.html > ...
<!DOCTYPE html>
<html ></html>
<!--From https://codepen.io/frytyler/pen/EGdtg-->
<head></head>
<meta charset="UTF-8">
<title>ML API</title>
<link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='text/css'>
<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'>
<link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300' rel='stylesheet' type='text/css'>
<link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">
</head>
<body></body>

<h1>Predict Salary Analysis</h1>
<!-- Main Input For Receiving Query to our ML -->
<form action="{{ url_for('predict')}}"method="post">
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File Edit Selection View Go Run Terminal Help
• model.py - FLASK - Visual Studio Code
model.py
#spilt train and test set
#since our dataset is small we will train avaliable data
from sklearn.linear_model import LinearRegression
regressor = LinearRegression()
#fitting model with train dataset
regressor.fit(X, y)
#Saving model to disk
pickle.dump(regressor, open('model.pkl', 'wb'))
#loading model to compare results
model = pickle.load(open('model.pkl', 'rb'))
PROBLEMS 2
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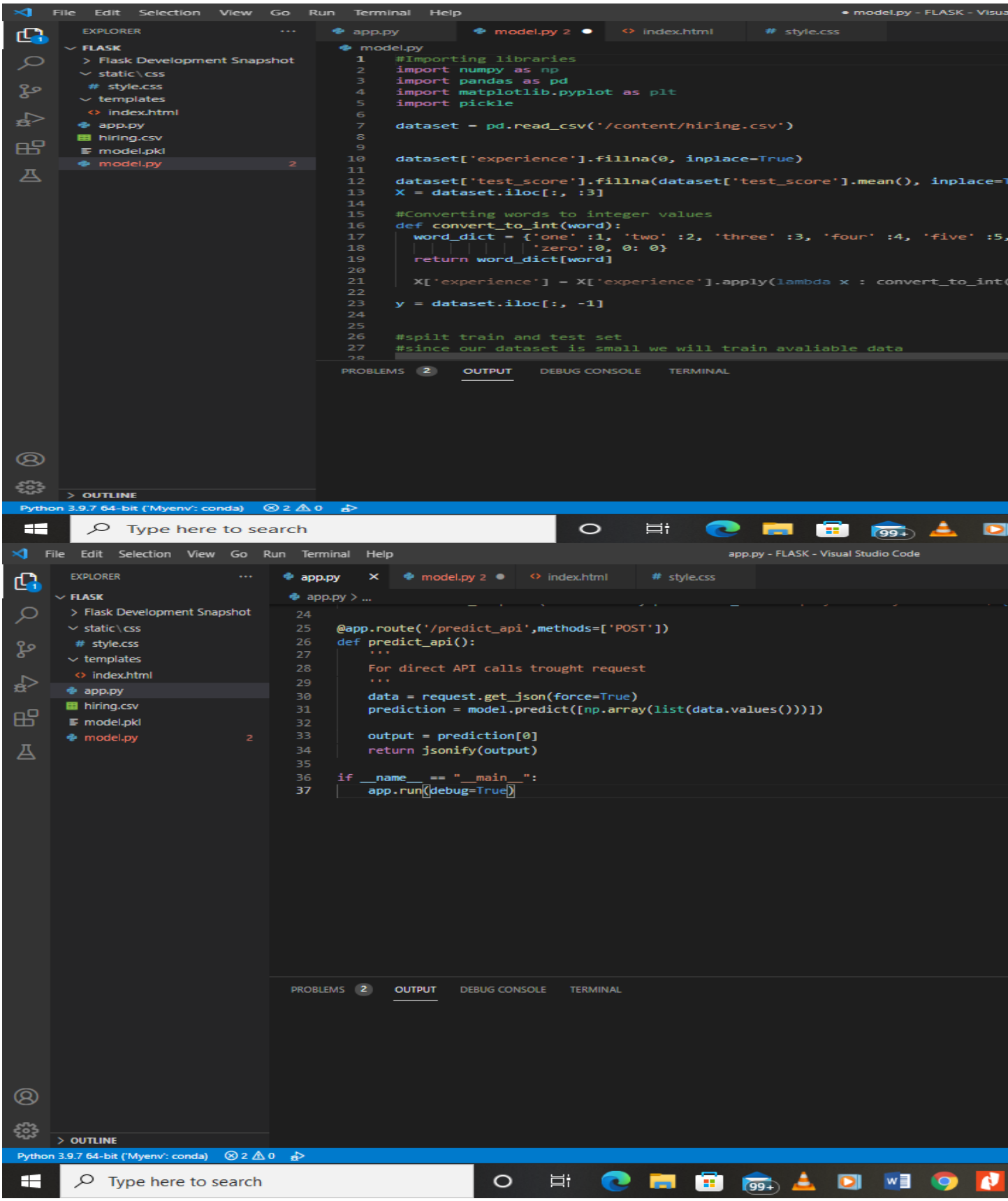
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model.py
#Importing libraries
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import pickle
dataset = pd.read_csv('/content/hiring.csv')
dataset['experience'].fillna(0, inplace=True)
dataset['test_score'].fillna(dataset['test_score'].mean(), inplace=
X = dataset.iloc[:, :3]
#Converting words to integer values
def convert_to_int(word):
word_dict = {'one' :1, 'two' :2, 'three' :3, 'four' :4, 'five' :5,
'zero':0, 0: 0}
return word_dict[word]
X['experience'] = X['experience'].apply(lambda x : convert_to_int(
y = dataset.iloc[:, -1]
#spilt train and test set
#since our dataset is small we will train avaliable data
PROBLEMS 2
OUTPUT
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Python 3.9.7 64-bit ('Myenv': conda)
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app.py > ...
@app.route('/predict_api',methods=['POST'])
def predict_api():
'''
For direct API calls trought request
'''
data = request.get_json(force=True)
prediction = model.predict([np.array(list(data.values()))])
output = prediction[0]
return jsonify(output)
if __name__ == "__main__":
app.run(debug=True)
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