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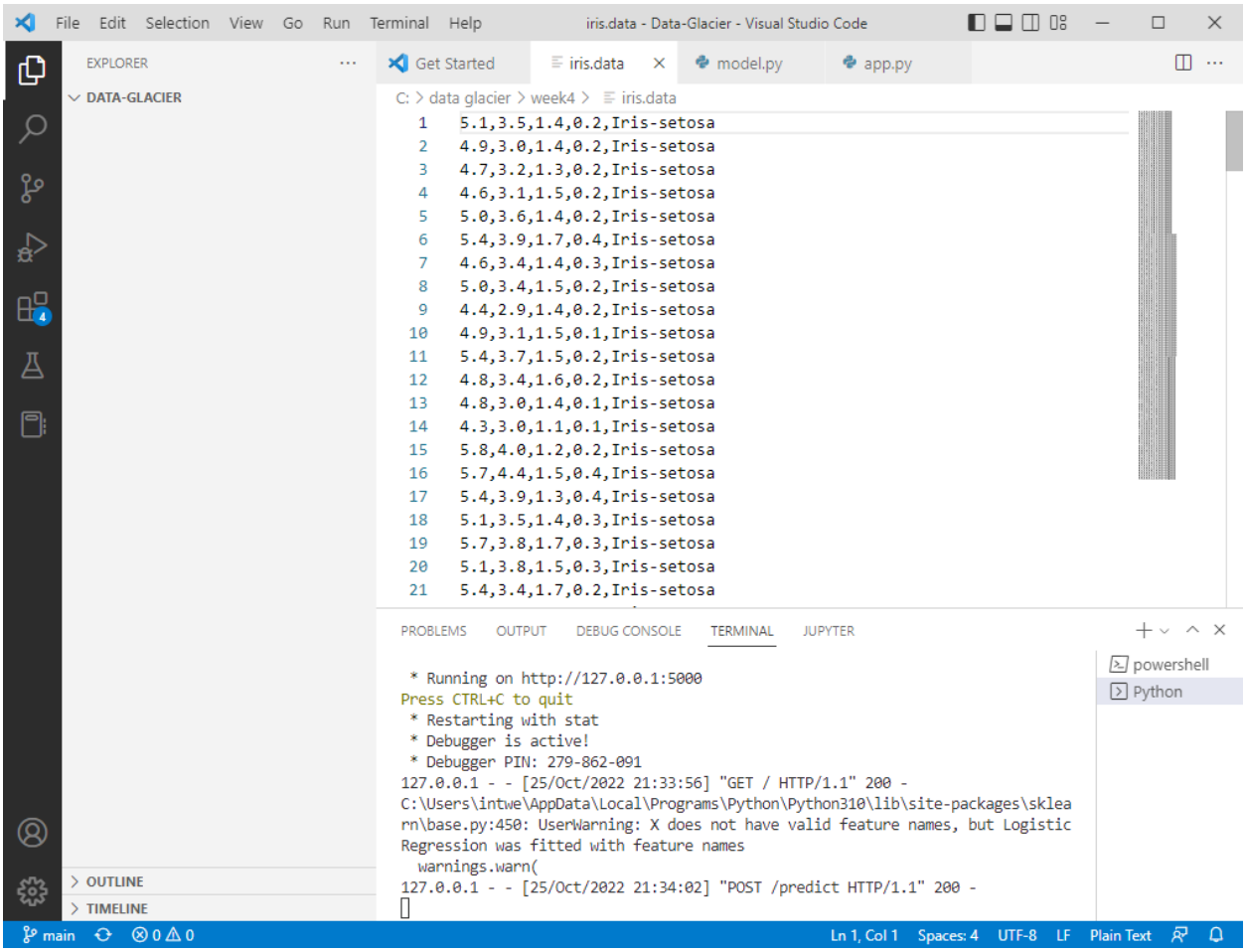
Batch code: LISUM14

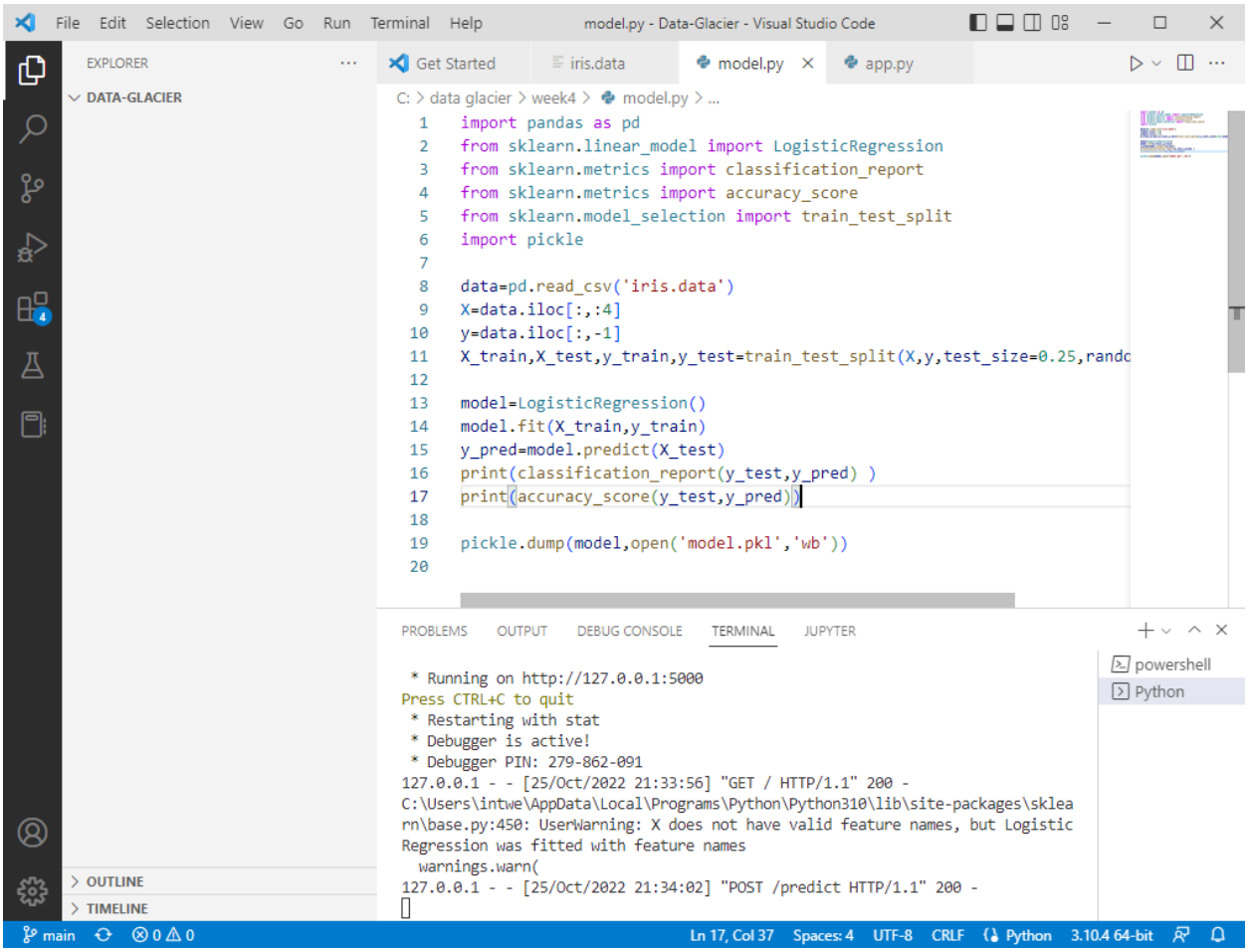
Submission date: 2022-10-25

1. Iris data set

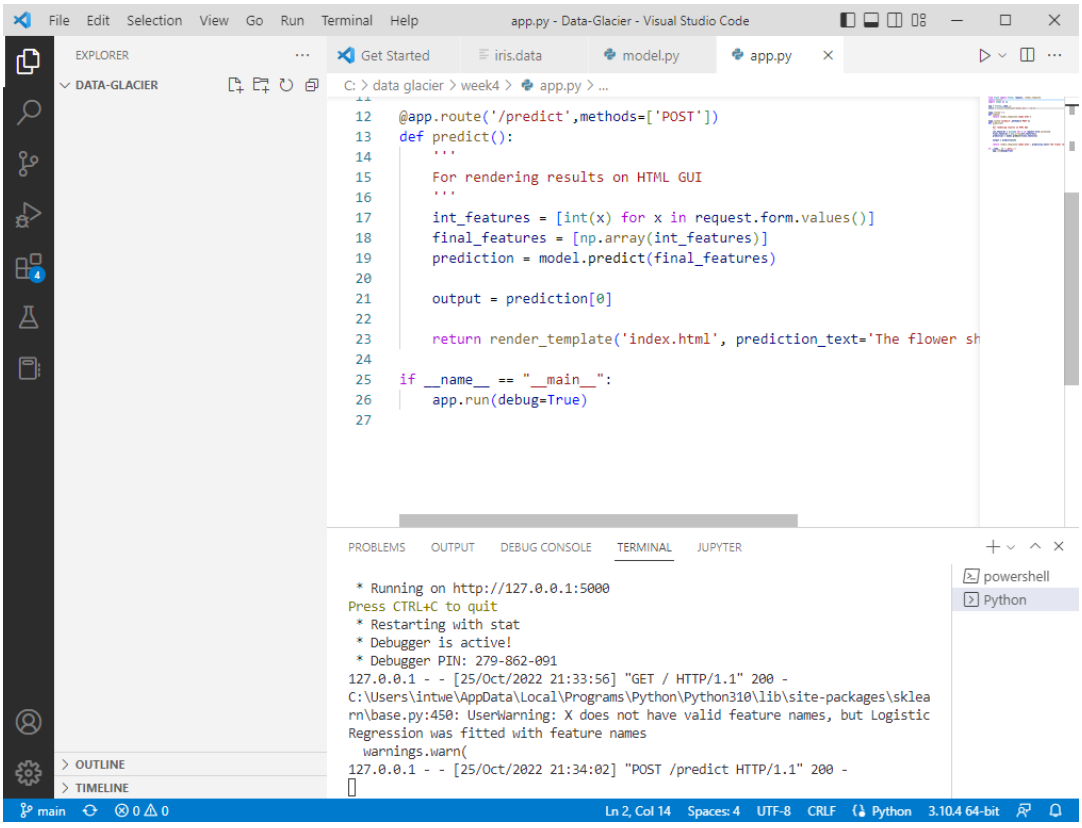
The data set contains 3 classes of 50 instances each, where each class refers to a type of iris plant. One class is linearly separable from the other 2; the latter are NOT linearly separable from each other.

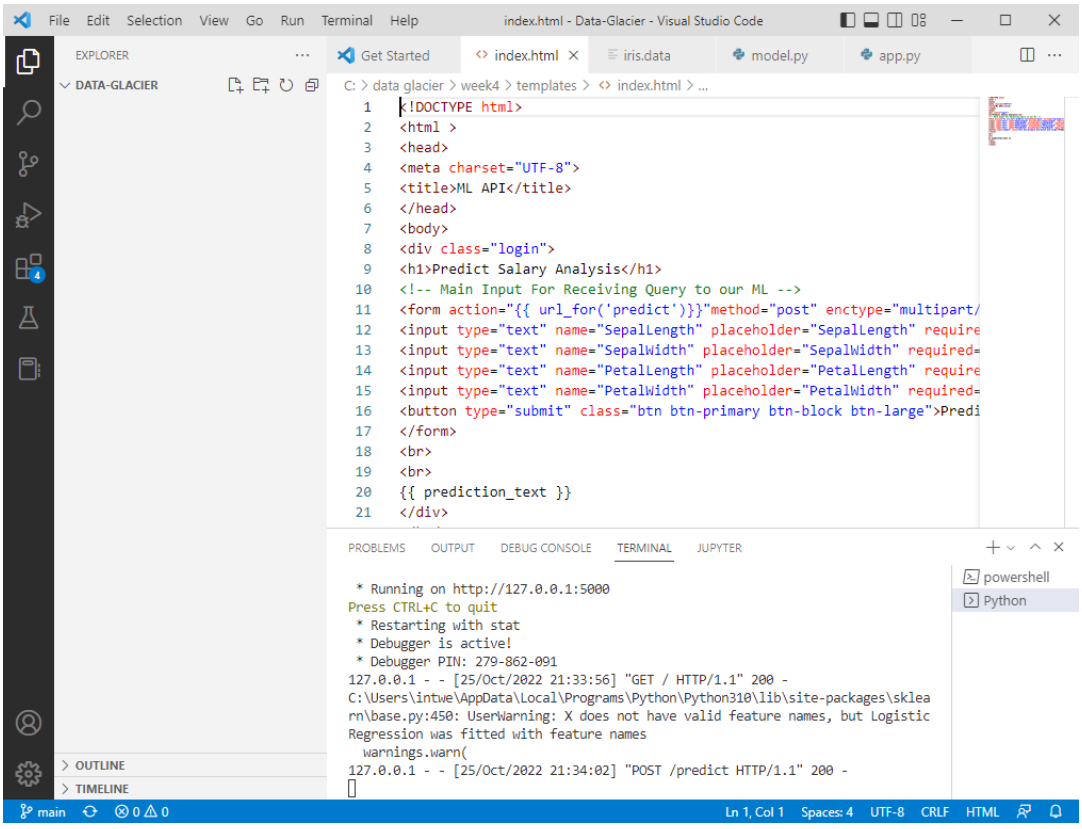


2. Model development



3. Web app


File Edit Selection View Go Run Terminal Help
app.py - Data-Glacier - Visual Studio Code
EXPLORER
DATA-GLACIER
Get Started
iris.data
model.py
app.py
C: > data glacier > week4 > app.py > ...
@app.route('/predict',methods=['POST'])
def predict():
'''
For rendering results on HTML GUI
'''
int_features = [int(x) for x in request.form.values()]
final_features = [np.array(int_features)]
prediction = model.predict(final_features)
output = prediction[0]
return render_template('index.html', prediction_text='The flower sh
if __name__ == "__main__":
app.run(debug=True)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 279-862-091
127.0.0.1 - - [25/Oct/2022 21:33:56] "GET / HTTP/1.1" 200 -
C:\Users\intwe\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:450: UserWarning: X does not have valid feature names, but LogisticRegression was fitted with feature names
warnings.warn(
127.0.0.1 - - [25/Oct/2022 21:34:02] "POST /predict HTTP/1.1" 200 -
powershell
Python
OUTLINE
TIMELINE
main
Ln 2, Col 14 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit


File Edit Selection View Go Run Terminal Help
index.html - Data-Glacier - Visual Studio Code
EXPLORER
DATA-GLACIER
Get Started
index.html
iris.data
model.py
app.py
C: > data glacier > week4 > templates > index.html > ...
<!DOCTYPE html>
<html >
<head>
<meta charset="UTF-8">
<title>ML API</title>
</head>
<body>

<h1>Predict Salary Analysis</h1>
<!-- Main Input For Receiving Query to our ML -->
<form action="{{ url_for('predict')}}"method="post" enctype="multipart/
<input type="text" name="SepalLength" placeholder="SepalLength" require
<input type="text" name="SepalWidth" placeholder="SepalWidth" required=
<input type="text" name="PetalLength" placeholder="PetalLength" require
<input type="text" name="PetalWidth" placeholder="PetalWidth" required=
<button type="submit" class="btn btn-primary btn-block btn-large">Predi
</form>

{{ prediction_text }}

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
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Press CTRL+C to quit
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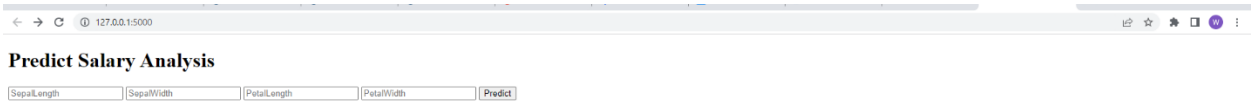
127.0.0.1 - - [25/Oct/2022 21:33:56] "GET / HTTP/1.1" 200 -
C:\Users\intwe\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:450: UserWarning: X does not have valid feature names, but LogisticRegression was fitted with feature names
warnings.warn(
127.0.0.1 - - [25/Oct/2022 21:34:02] "POST /predict HTTP/1.1" 200 -
powershell
Python
OUTLINE
TIMELINE
main
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF HTML

4. HTML



5. Prediction