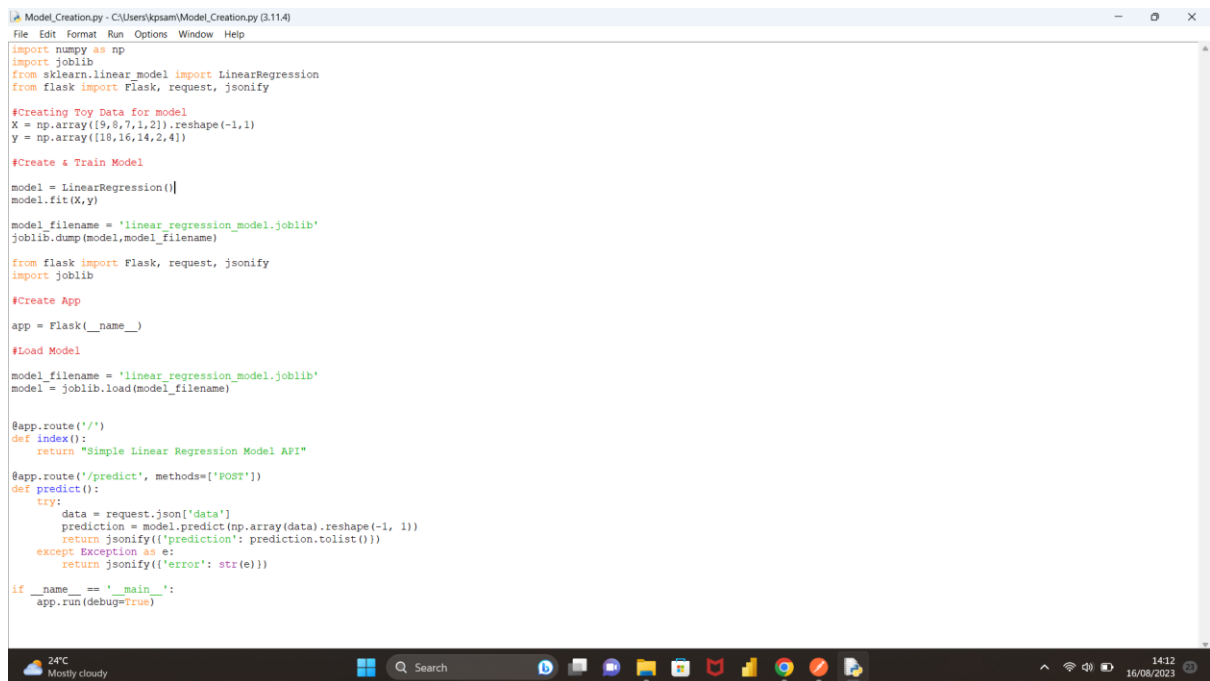


Name: Sri Saikamal Priyank Samireddi

Batch Code: LISUM23:30

Submission date: 17/09/2023

Submitted to: Github



```
Model_Creation.py - C:\Users\kpsam\Model_Creation.py (3.11.4)
File Edit Format Run Options Window Help

import numpy as np
import joblib
from sklearn.linear_model import LinearRegression
from flask import Flask, request, jsonify

#Creating Toy Data for model
X = np.array([9,8,7,1,2]).reshape(-1,1)
y = np.array([10,16,14,2,4])

#Create & Train Model

model = LinearRegression()
model.fit(X,y)

model_filename = 'linear_regression_model.joblib'
joblib.dump(model,model_filename)

from flask import Flask, request, jsonify
import joblib

#Create App

app = Flask(__name__)

#Load Model

model_filename = 'linear_regression_model.joblib'
model = joblib.load(model_filename)

@app.route('/')
def index():
    return "Simple Linear Regression Model API"

@app.route('/predict', methods=['POST'])
def predict():
    try:
        data = request.json['data']
        prediction = model.predict(np.array(data).reshape(-1, 1))
        return jsonify({'prediction': prediction.tolist()})
    except Exception as e:
        return jsonify({'error': str(e)})

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

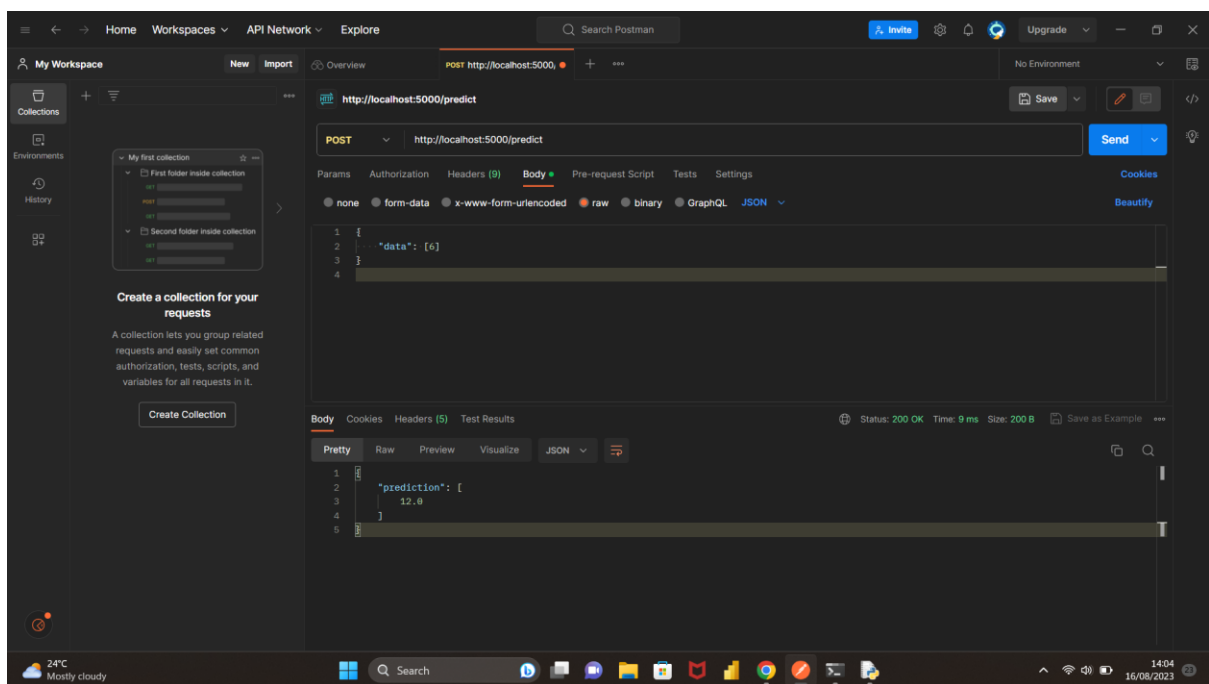
Python IDE

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\kpsam> python Model_Creation.py
* Serving Flask app 'Model_Creation'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5808
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 515-347-886
127.0.0.1 - - [16/Aug/2023 14:12:19] "GET / HTTP/1.1" 200 -
```

Bash



Postman