Name: Paula McCree-Bailey, Deployment on Flask

Batch Code: LISUM47

Submission Date: 8/16/2025 Submission to: Data Glacier

- 1 Create model.py file (not shown) to save the model for the sklearn toy dataset "Diabetes".
- 2 Create the app.py file (shown below) which takes the input from Postman to provide predicted level of progression of diabetes.

```
app.py × model.py
        def diabetes predict():
               age = request.args.get('age')
gender = request.args.get('gender')
bmi = request.args.get('bmi')
                bp = request.args.get('bp')
                 s1 = request.args.get('s1'
                s2 = request.args.get('s2')
                 s3 = request.args.get('s3')
                 s4 = request.args.get('s4')
                s5 = request.args.get('s5')
                s6 = request.args.get('s6')
               # Convert inputs to float
input_data = [float(age), float(gender), float(bmi), float(bp),
                                  float(s1), float(s2), float(s3), float(s4), float(s5), float(s6)]
                # Create DataFrame with correct column names
test_df = pd.DataFrame([input_data], columns=['age', 'sex', 'bmi', 'bp', 's1', 's2', 's3', 's4', 's5', 's6'])
                pred_level = model.predict(test_df)
                 return jsonify({'Predicted disease progression': round(float(pred_level[0]), 2)})
           except Exception as e:
    return jsonify({'error': str(e)})
       # driver function
if __name__ == '__main__':
             app.run(debug=True)
```

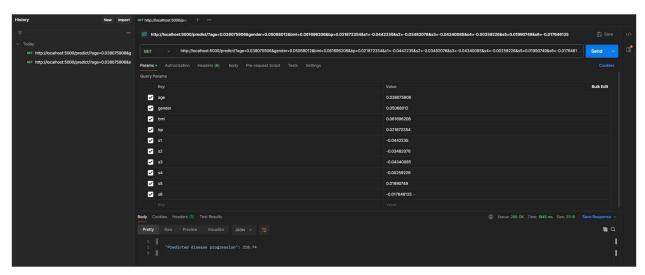
3 – Run app.py. Copy the local http location (http://127.0.0.1:5000).

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4 – Using Postman. Enter the feature names under Key and value under Values in Postman for testing. Once all values are entered, press Send.



The predicted value is displayed below.

