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Batch code -LISUM32

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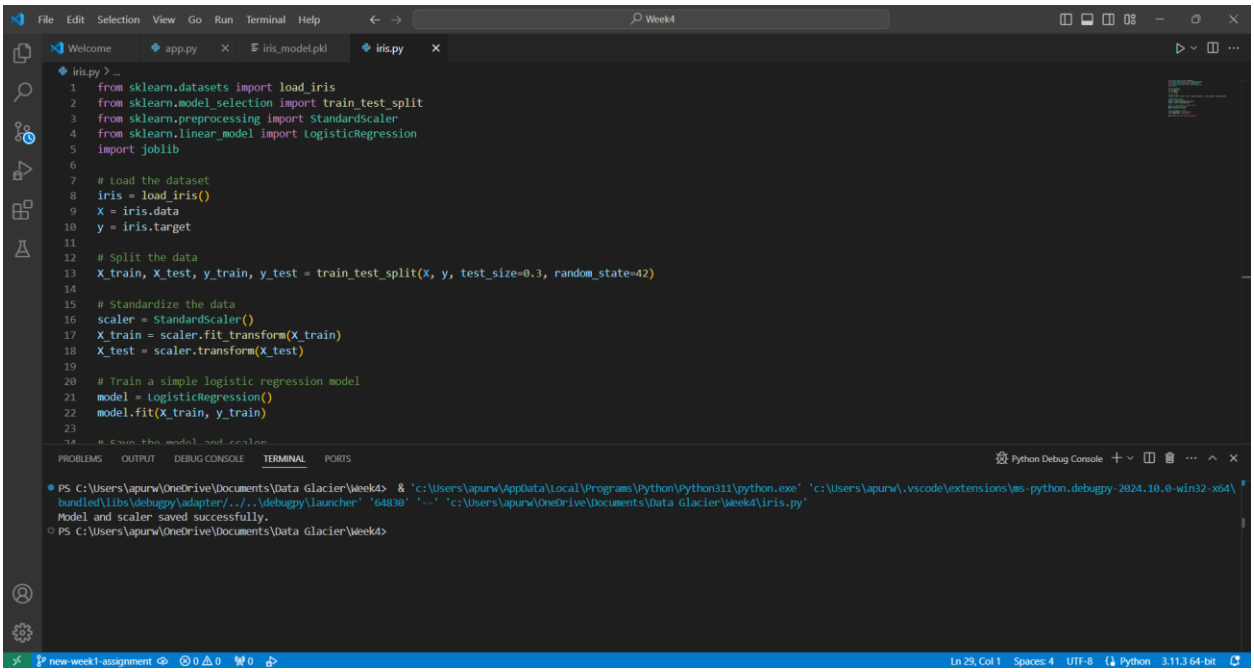
Submitted to – Data Glacier

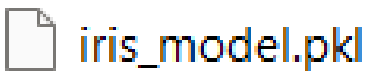
Snapshots of the Deployment Process

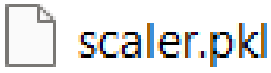
Selected Iris Dataset and used the regression model:



This step involves selecting the Iris dataset, which is used to train a logistic regression model. The dataset includes features such as sepal length, sepal width, petal length, and petal width to classify different species of Iris flowers.

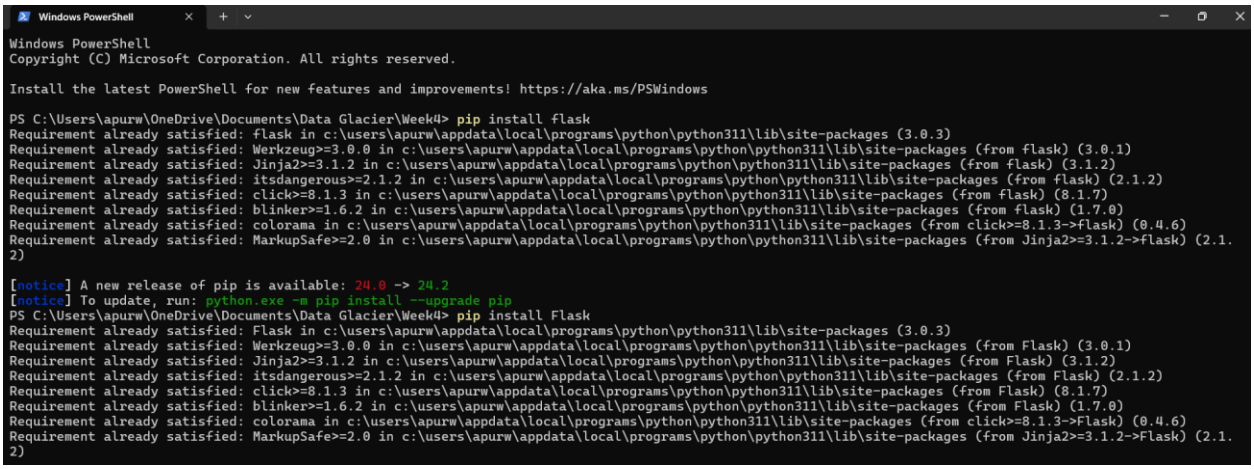
Both the model was saved:





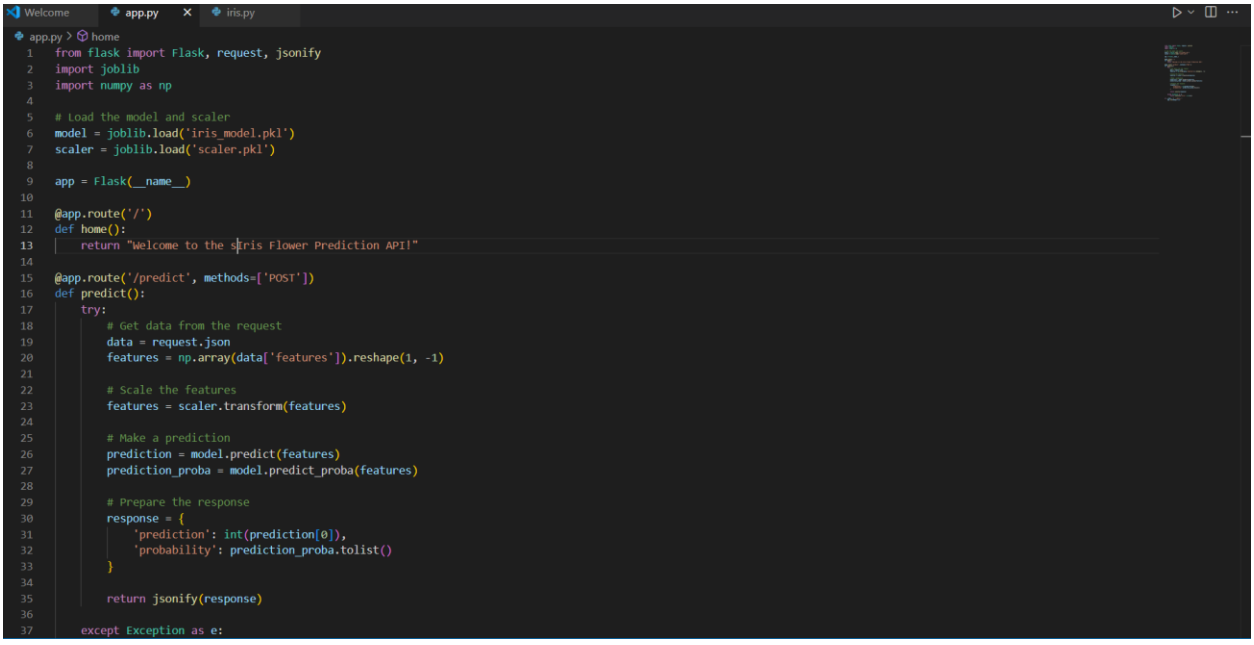
This step demonstrates the successful saving of the trained logistic regression model and the scaler used for standardizing the dataset. The files were saved using the joblib library.

Installed and made sure Flask is running properly



In this step, Flask was installed and verified to be running correctly on the local machine. This is crucial for deploying the machine learning model as a web application.

Flask app: Created a file named app.py -



```
36
37      except Exception as e:
38          return jsonify({'error': str(e)})
39
40  if __name__ == '__main__':
41      app.run(debug=True)
42
```

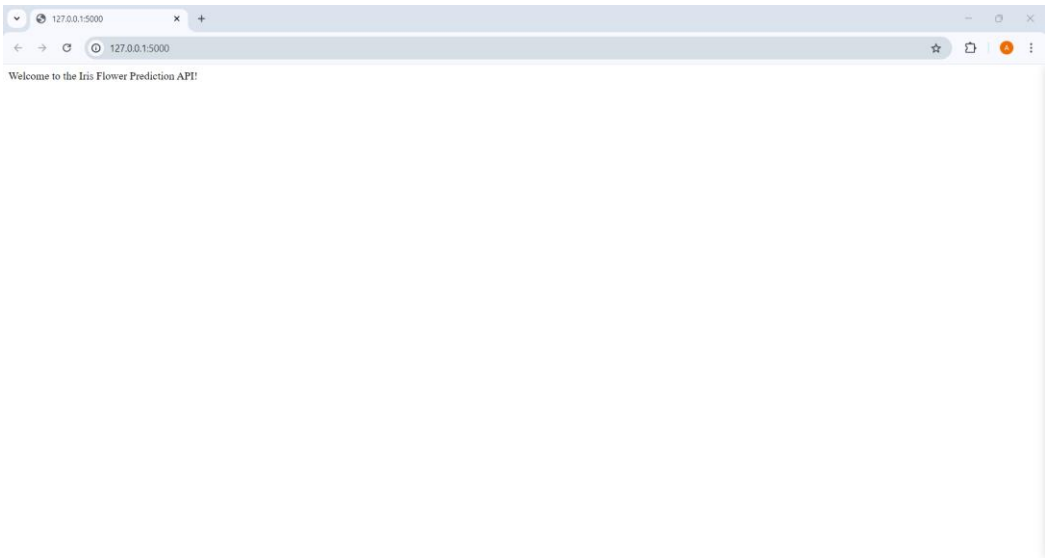
This step highlights the creation of the app.py file, which includes the code for the Flask web application. The application serves the trained model for predictions via a REST API.

Running the Flask App

```
PS C:\Users\apurw\OneDrive\Documents\Data Glacier\Week4> python app.py
 * Serving Flask app 'app'
 * 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://127.0.0.1:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 114-083-693
127.0.0.1 - - [01/Sep/2024 12:17:28] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [01/Sep/2024 12:17:28] "GET /favicon.ico HTTP/1.1" 404 -
 * Detected change in 'C:\\Users\\apurw\\OneDrive\\Documents\\Data Glacier\\Week4\\app.py', reloading
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 114-083-693
```

This step shows the Flask application being executed in the terminal. The app is now running and ready to accept HTTP requests for predictions.

Deployment final output on server:



This final step displays the successful deployment of the Flask app, with the application running on a local server. The message 'Welcome to the Iris Flower Prediction API!' confirms that the server is live and the application is accessible through the browser.