Title: Week 4 Assignment: Deployment on Flask

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Submission Date: 12/28/2023 Submitted To: Data Glacier

Introduction

This document provides a detailed report on the deployment of a machine learning model as a web application using Flask. The Iris dataset was utilized as a toy dataset for training the machine learning model, which was then saved and deployed.

1. Toy Data Selection

The Iris dataset was chosen due to its simplicity and widespread use for educational purposes in machine learning. The dataset includes various measurements of Iris flowers and is ideal for classification tasks.

2. Model Training and Saving

A logistic regression model was trained using the Iris dataset. After achieving satisfactory performance, the model was saved using Python's pickle module for future use in predictions.

3. Flask Web Application Deployment

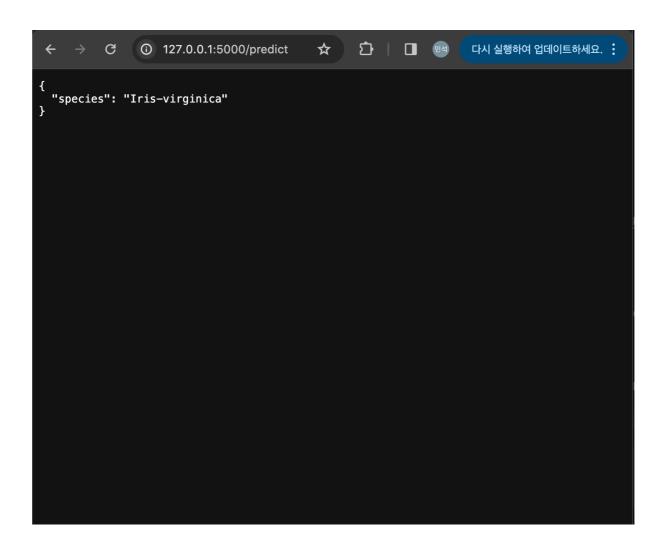
The saved model was deployed in a Flask web application. The application was set up to receive input data through a web form and use the trained model to predict the Iris species.

4. PDF Report Creation

This report was compiled to include the steps of the deployment process, along with the relevant screenshots to illustrate the workflow.

Sepal Length: 4.1	
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Petal Length: 3	
Petal Width: 4	

Predict





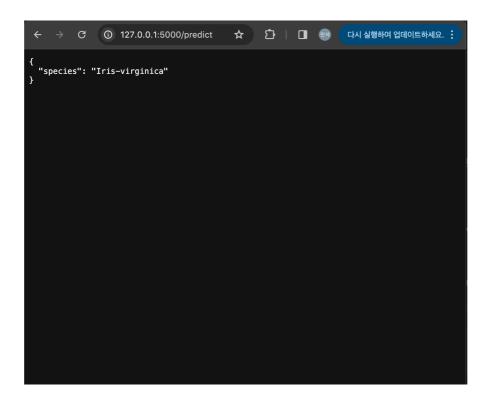
Sepal Length: 5.1
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Petal Length: 1.4
Petal Width: 0.2
Predict

Screenshots

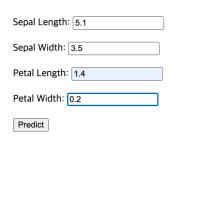
Below are the screenshots captured during the deployment process:

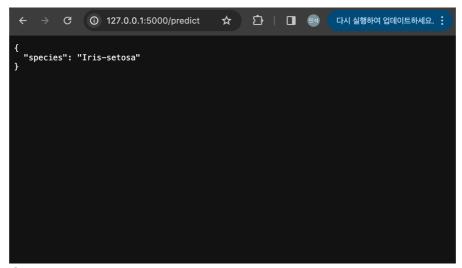


Sepal Length: 4.1
Sepal Width: 2
Petal Length: 3
Petal Width: 4
Predict









Conclusion

The Flask application successfully serves as an interface for users to input data and receive predictions. The application could be further improved with a user-friendly results page and enhanced styling.