## ML model Deployment on Flask

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**Introduction**: The aim of this project is to build a machine learning model using the Iris dataset provided by scikit-learn and deploy it on Flask. The model is a Random Forest Classifier that predicts the type of flower specie based on their sepal length, sepal width, petal length, and petal width.

**Model Development**: The model was developed using Python. The Iris dataset was loaded and split into training and testing sets. Feature scaling was applied to the dataset. A Random Forest Classifier was instantiated and fitted to the training data. The trained model was then saved as a pickle file for later use.



**App Development**: A Flask app was created to serve the model. The app has two routes - a home route that renders an HTML form for the user to input the features of a flower, and a predict route that takes these features, makes a prediction using the model, and returns the predicted flower species.

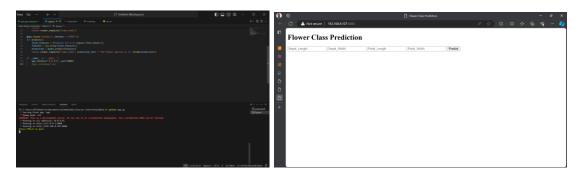


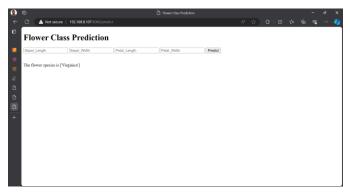
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**HTML File**: An HTML file was created for the Flask app. This file contains a form for the user to input the features of a flower, and a section to display the predicted flower species.



**App Running**: The Flask app was run locally for testing. The app successfully received input from the user, made a prediction, and displayed the predicted flower species.





This report provides a comprehensive overview of the process of developing a machine learning model and deploying it as a Flask app. It demonstrates the practical application of machine learning in a web development context.