

Evidence of Ongoing Product Development / Deployment

Project Title: Iris Flower Classification Web App

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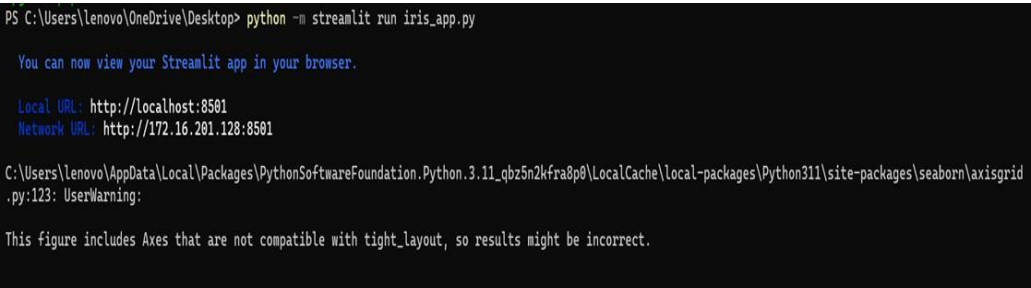
Institution: Vellore Institute of Technology, Vellore

Project Overview

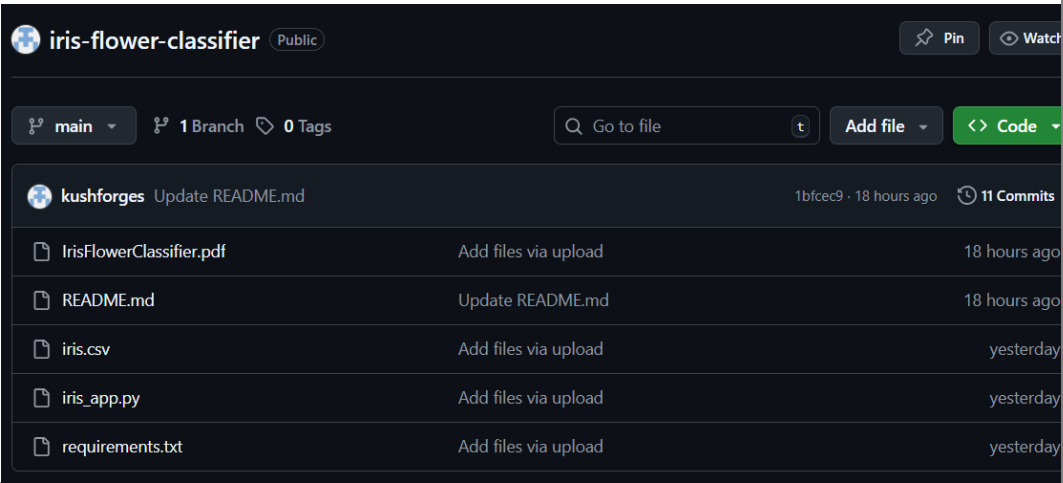
This project is an interactive web application built using Streamlit that classifies Iris flowers into three species—Setosa, Versicolor, and Virginica—based on sepal and petal measurements. The app integrates machine learning models such as Random Forest, Logistic Regression, and K-Nearest Neighbors (KNN) from Scikit-learn, and provides visualizations with Seaborn, Matplotlib, and Plotly. The goal of this project is to provide an intuitive and educational platform for understanding basic machine learning workflows and model comparison.

Evidence of Ongoing Development

The project is currently hosted on GitHub and deployed on Streamlit Cloud for live testing and demonstration. Faculty members and peers can interact with the model, input sample data, and visualize predictions in real-time. Below are the key evidence items representing the current development and deployment status:

Evidence Item	Description / Link
GitHub Repository	https://github.com/kushforges/iris-flower-classifier.git
Streamlit App (Live Demo)	https://iris-flower-classifier-y35s7iemyzpcuanwyzpci2.streamlit.app/
Screenshot of App Running	 <pre>PS C:\Users\lenovo\OneDrive\Desktop> python -m streamlit run iris_app.py You can now view your Streamlit app in your browser. Local URL: http://localhost:8501 Network URL: http://172.16.201.128:8501 C:\Users\lenovo\AppData\Local\Packages\PythonSoftwareFoundation.Python.3.11_qbz5n2kfra8p0\LocalCache\local-packages\Python311\site-packages\seaborn\axisgrid.py:123: UserWarning: This figure includes Axes that are not compatible with tight_layout, so results might be incorrect.</pre>

Screenshot of GitHub Repository



Summary

The project continues to be developed and improved as part of an ongoing learning and deployment effort. It demonstrates the full lifecycle of a machine learning application—from data preparation and model training to deployment on a public web platform. This document serves as official evidence of active product development and public accessibility for evaluation purposes.

References

- Scikit-learn Iris Dataset (Built-in) - Streamlit Framework - Plotly, Seaborn, and Matplotlib for Data Visualization - Python 3.11.9 Environment

