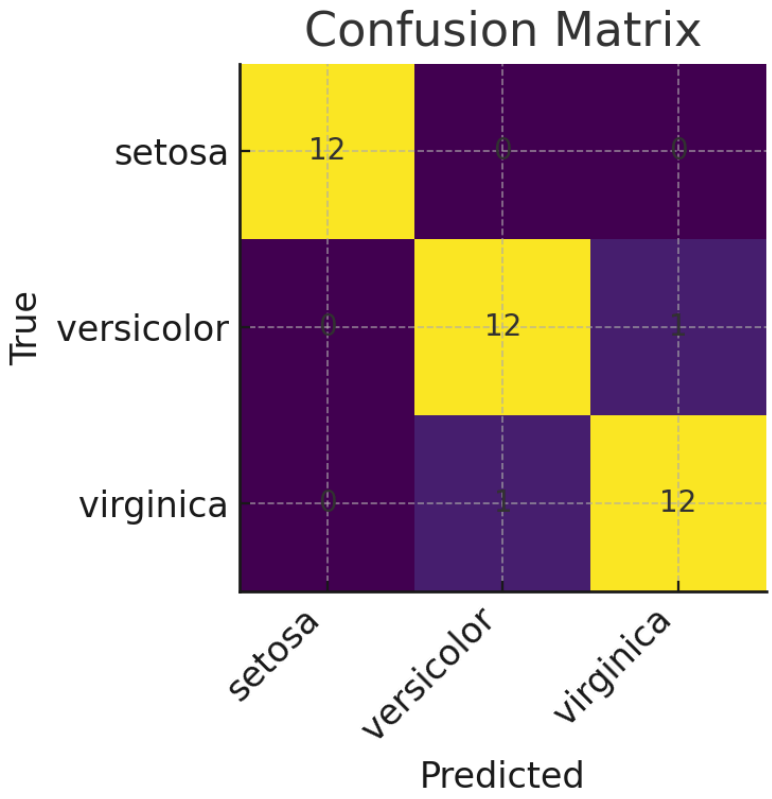
For this model, the Iris Dataset was used from Kaggle.
This is a preview of the dataset:

Iris dataset preview (first 5 rows)

sepal length	sepal width	petal length	petal width	target
5.1	3.5	1.4	0.2	0.0
4.9	3.0	1.4	0.2	0.0
4.7	3.2	1.3	0.2	0.0
4.6	3.1	1.5	0.2	0.0
5.0	3.6	1.4	0.2	0.0

Confusion matrix that was used:



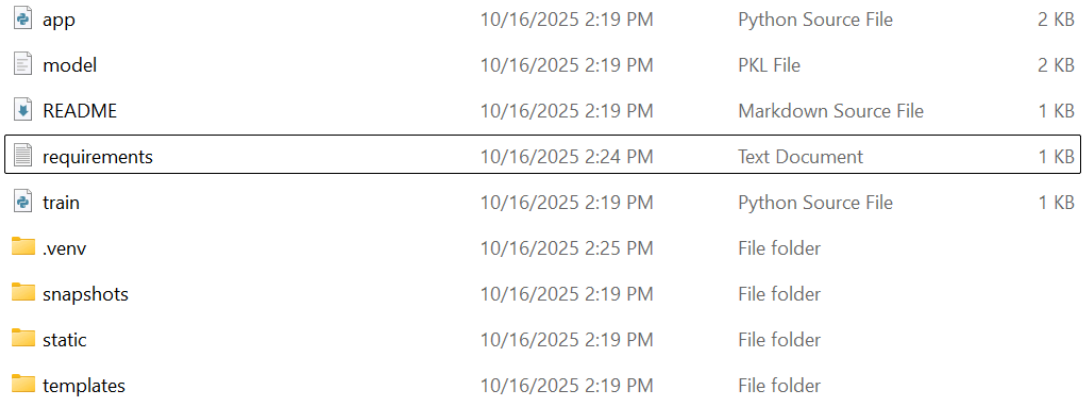
Below is the classification report for the dataset

Classification Report

	precision	recall	f1-score	support
setosa	1.00	1.00	1.00	12
versicolor	0.92	0.92	0.92	13
virginica	0.92	0.92	0.92	13
accuracy			0.95	38
macro avg	0.95	0.95	0.95	38
weighted avg	0.95	0.95	0.95	38

This model was then trained and created:

Then the required documents for flask were made, with the app and pickl model
This is how the inside of the folder should look:



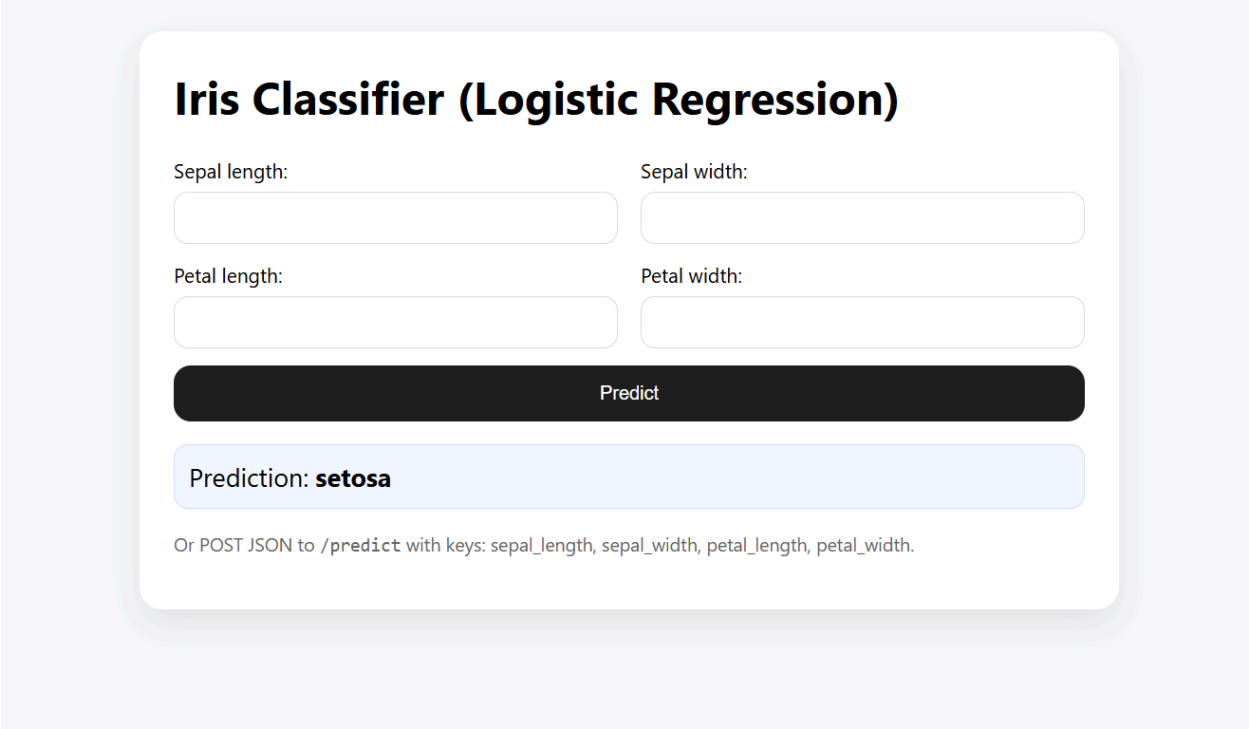
Requirements:

```
flask==2.2.5
joblib==1.3.2
numpy==1.21.6
scikit-learn==1.0.2
matplotlib==3.5.3
reportlab==4.2.2
```

These are the needed commands:

python -m venv .venv
.venv\Scripts\activate
pip install -r requirements.txt
python train.py
python app.py
Open http://127.0.0.1:5000

Once ran, this is what it looks like:



Iris Classifier (Logistic Regression)

Sepal length:

2

Sepal width:

0.5

Petal length:

0.5

Petal width:

1

Predict

Prediction: **setosa**

Or POST JSON to `/predict` with keys: sepal_length, sepal_width, petal_length, petal_width.