📌 README.md (for GitHub)

# Iris Dataset Pickle Project

This is a simple Python project that:

1. Downloads the [Iris dataset](https://archive.ics.uci.edu/ml/machine-learning-databases/iris/iris.data) from the UCI Machine Learning Repository.

2. Saves (pickles) the dataset to a local file.

3. Allows you to load (de-pickle) the dataset later and view sample rows.

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## 📂 Project Structure

├── iris\_pickle.py # Main script with pickle & de-pickle functions  
├── my-iris.pkl # Pickled dataset (generated after running)  
└── README.md # Project documentation

## ⚙️ Requirements

- Python 3.7+

- Required libraries:

- `requests`

- `pickle` (built-in)

- `os` (built-in)

**🚀 Usage**

Run the script:

python iris\_pickle.py

You’ll see a menu:

Options:

1. Pickle Iris dataset

2. De-pickle and view

**1️⃣ Pickle the dataset**

* Downloads the Iris dataset from UCI
* Stores it as my-iris.pkl

Enter your choice (1/2): 1

Output:

Iris dataset has been pickled into my-iris.pkl

**2️⃣ De-pickle and view data**

* Loads the dataset back into memory
* Displays how many rows and the first 5 rows

Enter your choice (1/2): 2

Loaded 150 rows from my-iris.pkl

['5.1', '3.5', '1.4', '0.2', 'Iris-setosa']

['4.9', '3.0', '1.4', '0.2', 'Iris-setosa']

...

📊 Example Output

Options:

1. Pickle Iris dataset

2. De-pickle and view

Enter your choice (1/2): 2

Loaded 150 rows from my-iris.pkl

['5.1', '3.5', '1.4', '0.2', 'Iris-setosa']

['4.9', '3.0', '1.4', '0.2', 'Iris-setosa']

['4.7', '3.2', '1.3', '0.2', 'Iris-setosa']

['4.6', '3.1', '1.5', '0.2', 'Iris-setosa']

['5.0', '3.6', '1.4', '0.2', 'Iris-setosa']

**📝 Notes**

* The dataset has **150 rows** and **5 columns**:
  + Sepal length
  + Sepal width
  + Petal length
  + Petal width
  + Class (species)
* If you try to de-pickle before pickling, it will warn you to pickle first.