

Development Environment Setup

Objective:

Set up a Python-based development environment that supports TensorFlow or PyTorch for deep learning tasks on the CIFAR-100 dataset.

Steps for Environment Setup:

1. **Install Python and Required Libraries:**
 - **Python Version:** Ensure Python is installed.
 - **Key Libraries:** Install TensorFlow, PyTorch, NumPy, pandas, and matplotlib.
2. **Verify Installations:**

Import each installed library in a Python script or notebook to verify functionality.
3. **Setup:**

Set up a Jupyter Notebook environment or a preferred IDE for code development.

Environment Summary:

- **Python Version:** 3.10 and above
- **Deep Learning Frameworks:** TensorFlow (or PyTorch)
- **Additional Libraries:** NumPy, pandas, matplotlib

This environment setup is ready for CIFAR-100 data loading, exploration, and eventual model development.