

# Fine-Tuning Overview

Fine-tuning is the process of taking a pre-trained machine learning model and training it further on a custom dataset to improve performance on a specific task.

## Steps in Fine-Tuning

- Prepare and clean the dataset.
- Load a pre-trained model.
- Configure training parameters (learning rate, epochs, batch size).
- Train the model on the custom dataset.
- Monitor training progress (loss, accuracy).
- Save the fine-tuned model.

The notebook output shows a successful download and setup step, indicating resources were loaded correctly before training.