

Hands-on Project - Training ML Models on Remote Server

Project Goal: Train image classifier on remote GPU server

1 SSH & Setup

SSH into server and setup environment
(conda/docker)

2 Transfer Dataset

Use scp or download directly on server

3 Write Training Script

PyTorch/TensorFlow with proper logging

4 Run in tmux

Persistent session even if disconnected

5 Monitor Training

nvidia-smi and TensorBoard (port forwarding)

6 Download & Evaluate

Download trained model and evaluate locally

Project Deliverables



Working Model



Training Logs



Results Presentation