

## Hands-On Environment Setup

### Required Software

✓ Python 3.9+

✓ PyTorch 2.0

✓ Transformers 4.30

✓ Docker Desktop

✓ CUDA 11.8+ (GPU)

✓ Jupyter Notebook

```
# Installation Commands pip install torch transformers datasets pip install huggingface_hub
accelerate pip install pandas numpy scikit-learn pip install jupyter notebook # Verify
Installation python -c "import torch; print(torch.cuda.is_available())"
```