Docker Basics - ML Environment Containerization

Docker: Package application + dependencies into portable container

✓ Consistent environment • No "works on my machine" issues

🗃️ Image

Template (read-only)

`pytorch/pytorch:2.0-cuda11.8-cudnn8-runtime`

🚀 Container

Running instance of image (isolated process)

📝 Dockerfile

Recipe to build custom images

💾 Volume

Mount local directory for data persistence

Dockerfile Commands

FROM	RUN	COPY	CMD

🤔 Without Docker vs With Docker

❌ Without Docker	✅ With Docker

Computer A

VS

Computer A

see the differ

▶ Start Comparison

🔄 Reset