File Transfer - Using SCP and SFTP

SCP (Secure Copy): Command-line file transfer over SSH

⬆ Upload

Local → Remote Server

```
scp local_file.py user@server:/remote/p
ath/
```

⬇ Download

Remote Server → Local

```
scp user@server:/remote/model.pth ./loc
al/path/
```

Recursive Transfer (Entire Directories)

Use -r flag to transfer directories

```
scp -r ./dataset/ user@server:/data/
```

SCP
Simple command-line transfer over SSH

SFTP
Interactive file transfer (like FTP but secure)

rsync
Smart sync, only transfers changed files (efficient)

Large Datasets
Consider cloud storage (S3, GCS) or shared filesystems

Compression Tip

Compress before transfer (tar + gzip) for faster upload/download