**3D image reconstruction using Neural Networks**

**Prerequisite**

The projects use several python packages listed in requirements.txt. Install those packages using pip:

pip3 install -r requirements.txt

**Setup**

To start training the network, you first need to set up the network folder structure. That creates folders for the data, models and a JSON file to store the parameters of the network being trained.

sh scripts/setup\_dir.sh

**Preprocess Data Set**

After setting up the network folder structure, we download the image renders and low voxel models used by choy et al, then we pre-process the dataset by serializing the data to *numpy* files for easy loading and manipulation.

sh scripts/preprocess\_dataset.sh

**Training**

After preparing the dataset for training, we can start training our network

sh scripts/train.sh