```
git clone https://github.com/nilmtk/nilmtk.git
```

```
git clone https://github.com/nilmtk/nilmtk-contrib.git
```

in nilmtk folder > edit setup.py; comment out FULLVERSION lines

```
FULLVERSION = VERSION
if not ISRELEASED and not TRAVIS_TAG:
    try:
        import subprocess

        try:
            pipe = subprocess.Popen(
                ["git", "rev-parse", "--short", "HEAD"], stdout=subprocess.PIPE
            ).stdout
        except OSError:
            # msysgit compatibility
            pipe = subprocess.Popen(
                ["git.cmd", "rev-parse", "--short", "HEAD"], stdout=subprocess.PIPE
            ).stdout
        rev = pipe.read().strip()
        # makes distutils blow up on Python 2.7
        if sys.version_info[0] >= 3:
            rev = rev.decode("ascii")

        # Use a local version tag to include the git revision
        #FULLVERSION += ".dev{}+git.{}".format(DEV, rev)
    except:
        #FULLVERSION += ".dev{}".format(DEV)
        warnings.warn(
            'WARNING: Could not get the git revision, version will be "{}"'.format(
                FULLVERSION
            )
        )
else:
    FULLVERSION += QUALIFIER
```

```
pip install -e ./nilmtk
```

```
pip install -e ./nilmtk-contrib
```

```
pip uninstall keras
```

```
pip install Keras==2.4.3
```

```
Code:
```

```
from nilmtk.api import API
from nilmtk.disaggregate import Mean
from nilmtk_contrib.disaggregate import DAE,Seq2Point, Seq2Seq, RNN,
WindowGRU

epochs = 1

redd = {
    'power': {
        'mains': ['apparent','active'],
        'appliance': ['apparent','active']
```

```
    },
    'sample_rate': 10,

    'appliances': ['microwave', 'dish washer', 'washer dryer', 'coffee
maker'],
    'methods': {


        'RNN':RNN({'n_epochs':epochs,'batch_size':32}),
        'DAE':DAE({'n_epochs':epochs,'batch_size':32}),
        'Seq2Point':Seq2Point({'n_epochs':epochs,'batch_size':32}),
        'Seq2Seq':Seq2Seq({'n_epochs':epochs,'batch_size':32}),

        'Mean': Mean({}),

    },
    'train': {
        'datasets': {
            'Dataport': {
                'path':
'C:/Users/david/Desktop/smart_meter_predictions/ukdale2.h5',
                'buildings': {
                    1: {
                        'start_time': '2015-04-04',
                        'end_time': '2015-04-05'
                    },
                    #                 56: {
                    #             'start_time': '2015-01-28',
                    #             'end_time': '2015-01-30'
                    #           },
                }

            }
        }
    },
    'test': {
        'datasets': {
            'Datport': {
                'path':
'C:/Users/david/Desktop/smart_meter_predictions/ukdale2.h5',
                'buildings': {
                    1: {
                        'start_time': '2015-04-05',
                        'end_time': '2015-04-06'
                    },
                }
            }
        },
        'metrics':['mae']
    }
}

#'WindowGRU':WindowGRU({'n_epochs':50,'batch_size':32}),

api_res = API(redd)
```