

Quick start

Comparison on Test set

Generate the test set

```
python data_generate.py -test
```

Test with the pretrained model on TSP with 1000 nodes

```
python test.py --dataset test/1000.pkl --model_path pretrained/lkhm.pt --n_samples 1000
```

Comparison on TSPLIB

LKH, NeuroLKH, and LKHM-LKH

```
python tsplib_test.py --model_path pretrained/lkhm.pt --n_samples 5
```

VSR-LKH, NeuroLKH-VSR, and LKHM-VSR

```
python tsplib_test_VSR.py --model_path pretrained/lkhm.pt --n_samples 5
```

Model training

Generate the training dataset

```
python data_generate.py -train
```

Train the LKHM Model

```
python train.py --file_path train --eval_file_path val --eval_batch_size=100 --save_dir=saved/lkhm --learning_rate=0.00001
```

Dependencies

- Python >= 3.6
- Pytorch
- sklearn
- Numpy
- tqdm
- (Swig, optional)