

data_factory.py

```
from data_provider.data_loader import Dataset_ETT_hour, Dataset_ETT_minute,
Dataset_Custom, Dataset_Pred
from torch.utils.data import DataLoader
```

```
data_dict = {
'ETTh1': Dataset_ETT_hour,
'ETTh2': Dataset_ETT_hour,
'ETTM1': Dataset_ETT_minute,
'ETTM2': Dataset_ETT_minute,
'dataset4': Dataset_Custom,
}
```

```
def data_provider(args, flag):
Data = data_dict[args.data]
timeenc = 0 if args.embed != 'timeF' else 1
```

```
if flag == 'test':
shuffle_flag = False
drop_last = True
batch_size = args.batch_size
freq = args.freq
elif flag == 'pred':
shuffle_flag = False
drop_last = False
batch_size = 1
freq = args.freq
Data = Dataset_Pred
else:
shuffle_flag = True
drop_last = True
batch_size = args.batch_size
freq = args.freq
```

```
data_set = Data(
root_path=args.root_path,
data_path=args.data_path,
flag=flag,
size=[args.seq_len, args.label_len, args.pred_len],
features=args.features,
target=args.target,
timeenc=timeenc,
freq=freq
)
print(flag, len(data_set))
data_loader = DataLoader(
data_set,
batch_size=batch_size,
shuffle=shuffle_flag,
num_workers=args.num_workers,
```

```
drop_last=drop_last)  
return data_set, data_loader
```