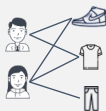


Trainer Module

create_optm() ➔ train_epoch()
train() ➔ evaluate()

General CF



Multi-Beh



Social CF



Seq Rec



KG Rec



Contrastive

Generative

Predictive

Recommendation

$$\min \sum_{y_{u,i} \in \mathcal{Y}} \mathcal{L}_{\text{rec}}(f(\mathcal{X})_{u,i}, y_{u,i})$$

$$+ \min \mathcal{L}_{\text{ssl}}(\Delta_1(\mathcal{X}), \Delta_2(\mathcal{X}))$$

Self-Supervised Learning

Configuration Module

train
epoch

model
embed_d
gnn_layer
ssl_weight
reg_weight

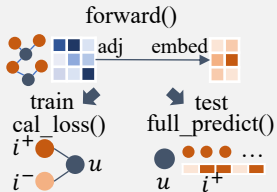
data
scenario

optimizer
learn_rate

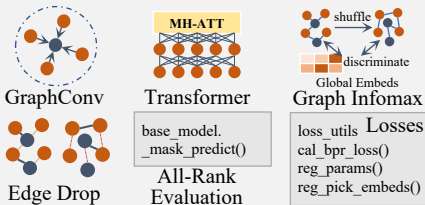
test
metrics

Model Module

Unified Interface

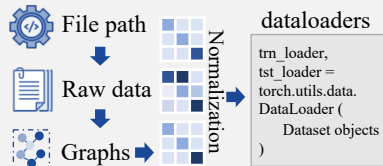


Reusable Utilities



Data Module

class DataHandler



class DataSet

