

Python utility functions

Data representing
Data splitting
Data sampling
Data transforming

SVD
SAR
RLRMC
NCF
FM/FFM
Wide&Deep
xDeepFM
DKN
LightGBM

Ranking metrics
Rating metrics
Bitwise metrics

Data preprocessing

Model selection

Model evaluating

Jupyter notebooks

- Real-time recommendation with batch-mode model building pipeline
- Real-time recommendation generation for personalization
- Knowledge graph based recommendation

Data preservation

Model / results deployment

CI/CD build pipeline

CPU

Spark

GPU

Globally distributed database

Kubernetes cluster

Docker container

Virtual machine