Aggregating

Decoding

**Customer Behavior** 

Likelihood

External Data

Other

Xgboost: different combinations of tuning parameters

Xgboost: include likelihood features

Xgboost: drop certain features

Xgboost: drop customers with only one order position

Xgboost: drop items with zero price (gift)

Glmnet: all features

Random Forest: all features

Deep Learning: random tuning parameters

Xgboost: use predicted probabilities+top 100 important features; different random seeds

Weighted average of predicted probabilities