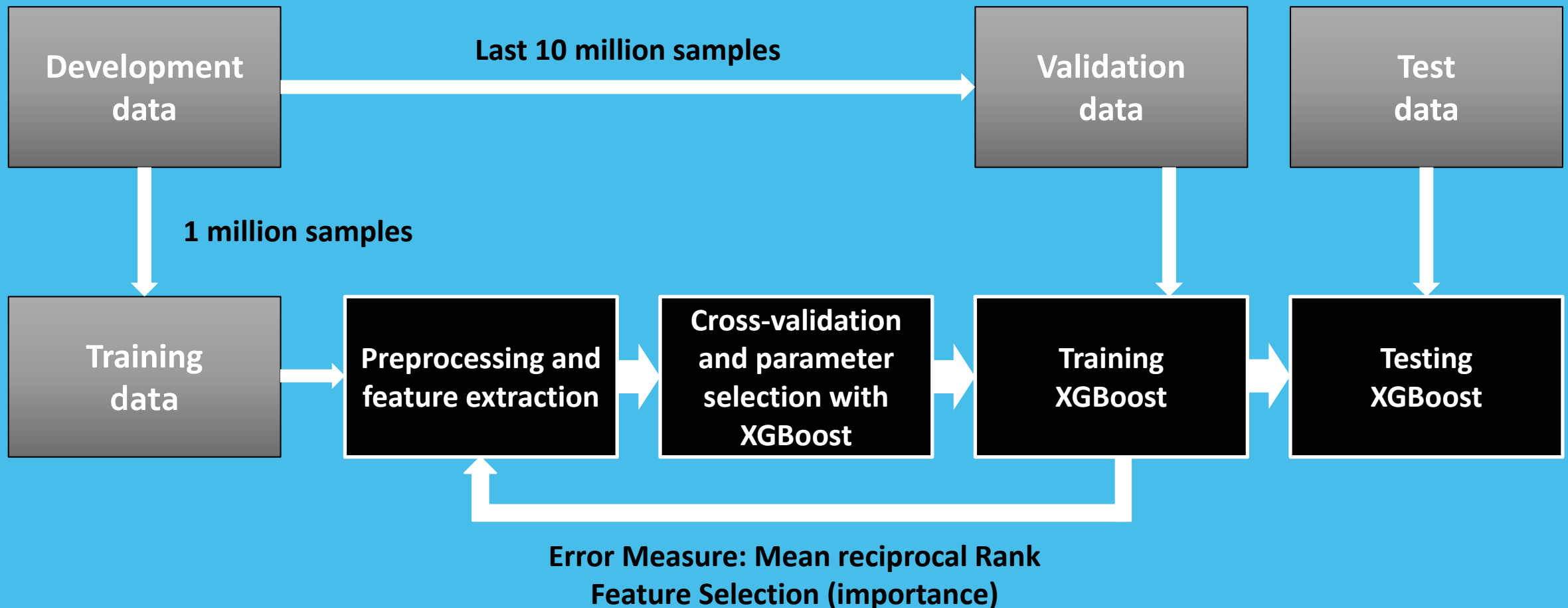


RECOMMENDERS: TRIVAGO RECSYS CHALLENGE

Rubén Barco Terrones

Pablo Lázaro Herrasti

PIPELINE



PREPROCESSING AND FEATURE EXTRACTION

Features	Values
1- Ranking of item prices	Categorical (1-25)
2- Number of steps until clickout	Integer (0-)
3- Number of iterations with this item	Integer (0-)
4- Position of item in impression list	Categorical (1-25)
5- Destination searched same city of user	Binary (0-1)
6- Last item with interaction	Binary(0-1)
7- Last item searched	Binary(0-1)
8- Percentage of filters that the item fulfils	Float(0-1)
9- Stars of the item	Dummy (5 columns)

Final submission:
13 features

XGBOOST

Test data

XGBOOST

After GridSearch:
Scale_pos_weight = 5
Max_depth=5
N_estimators = 150

Final XGBoost
trained with 11
million of samples

Final Score:
63.32 %