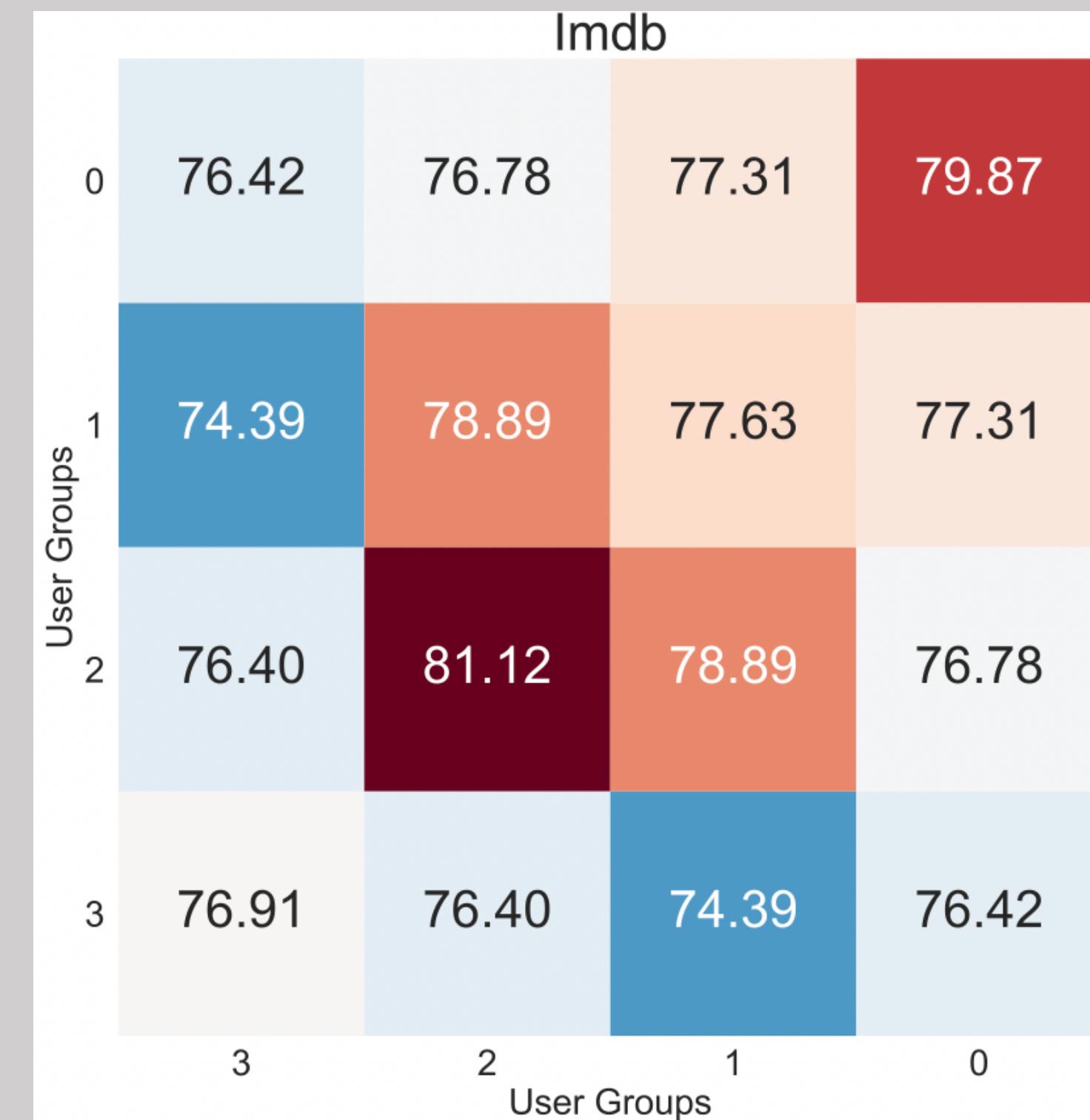
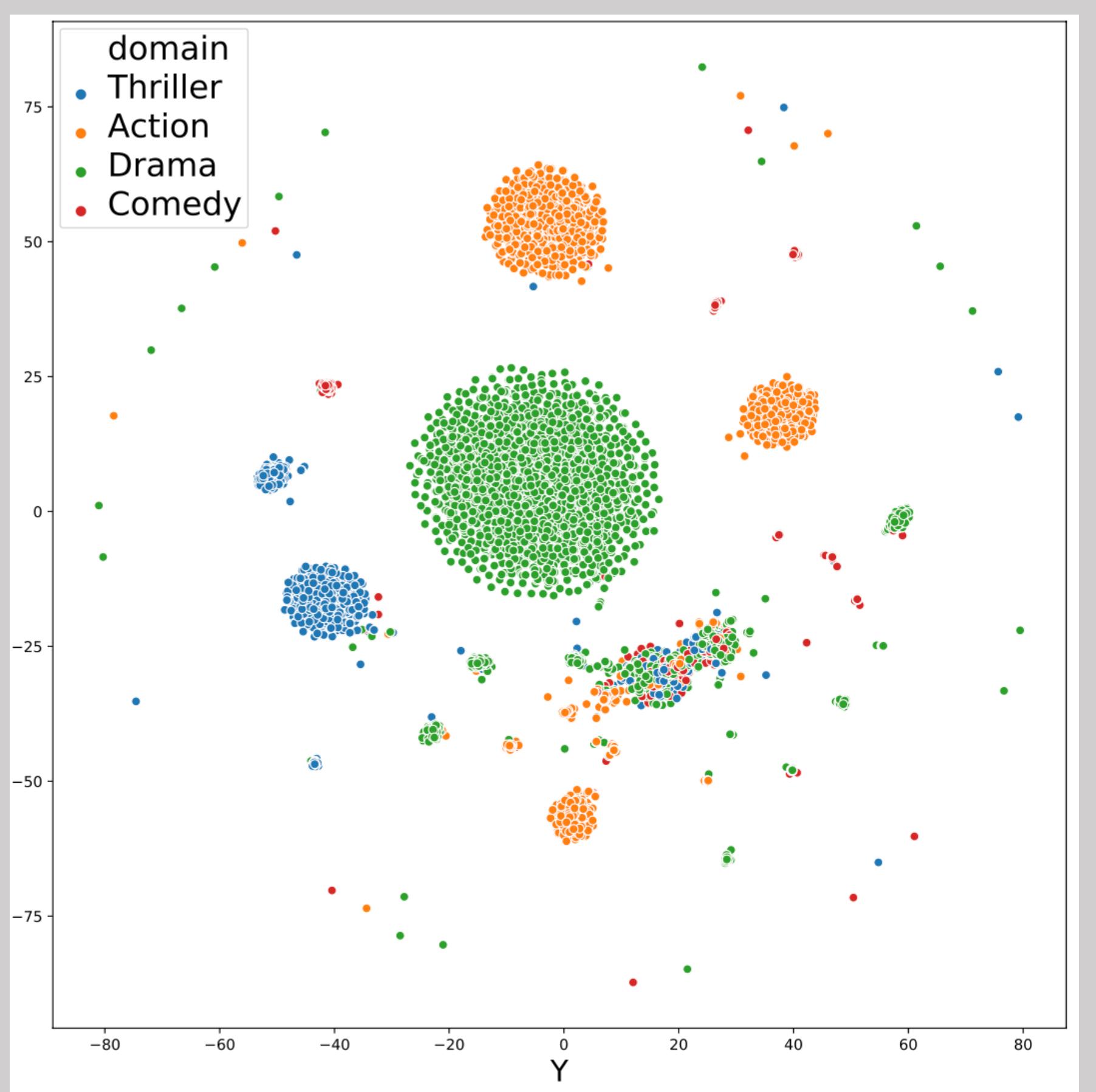


Language varies across user factors (user interest).

The variations impact stability of classification models.



User-centred models can capture the variations and increase personalization.

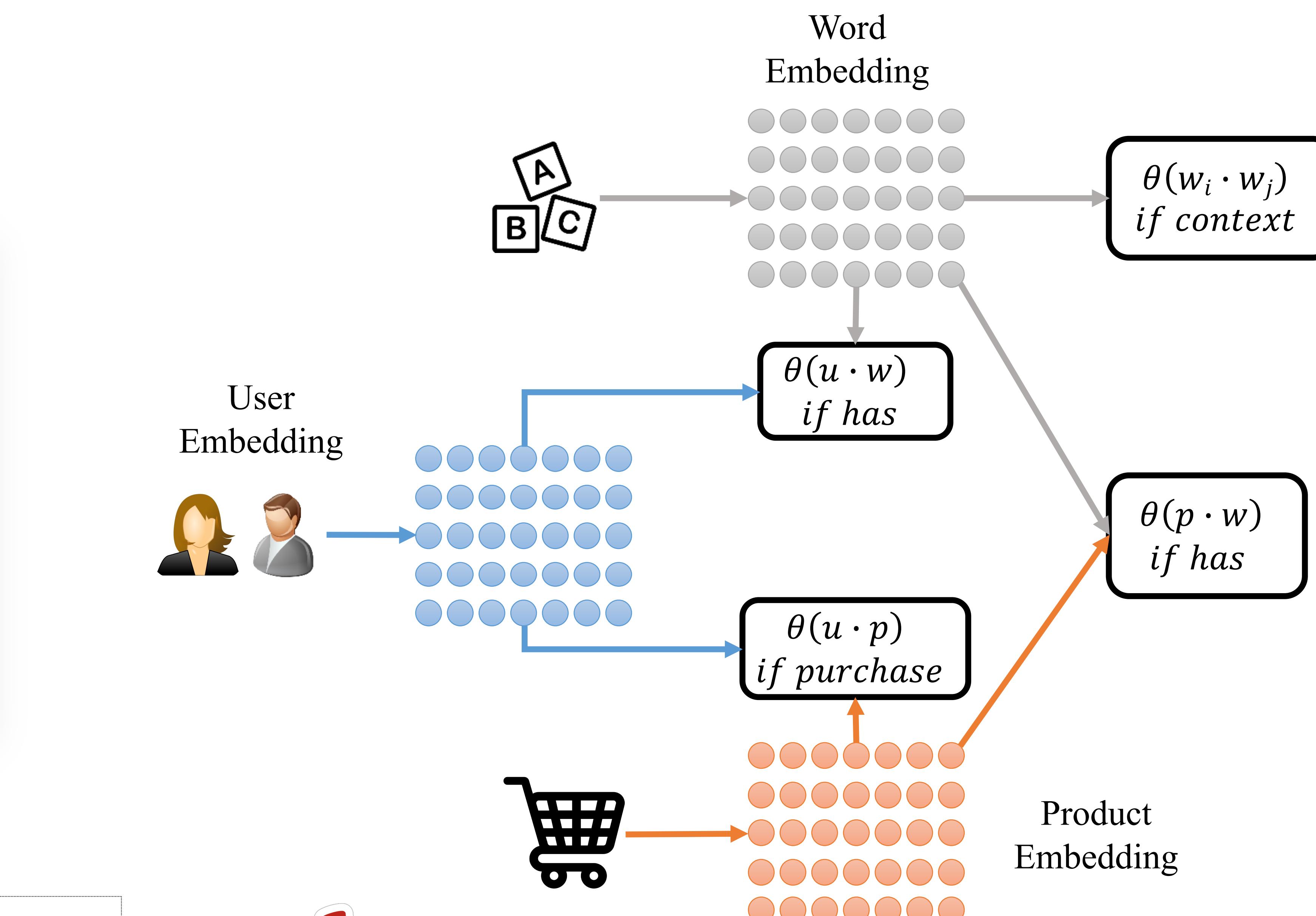


User Factor Adaptation for User Embedding via Multitask Learning

Method

Jointly model all relations:

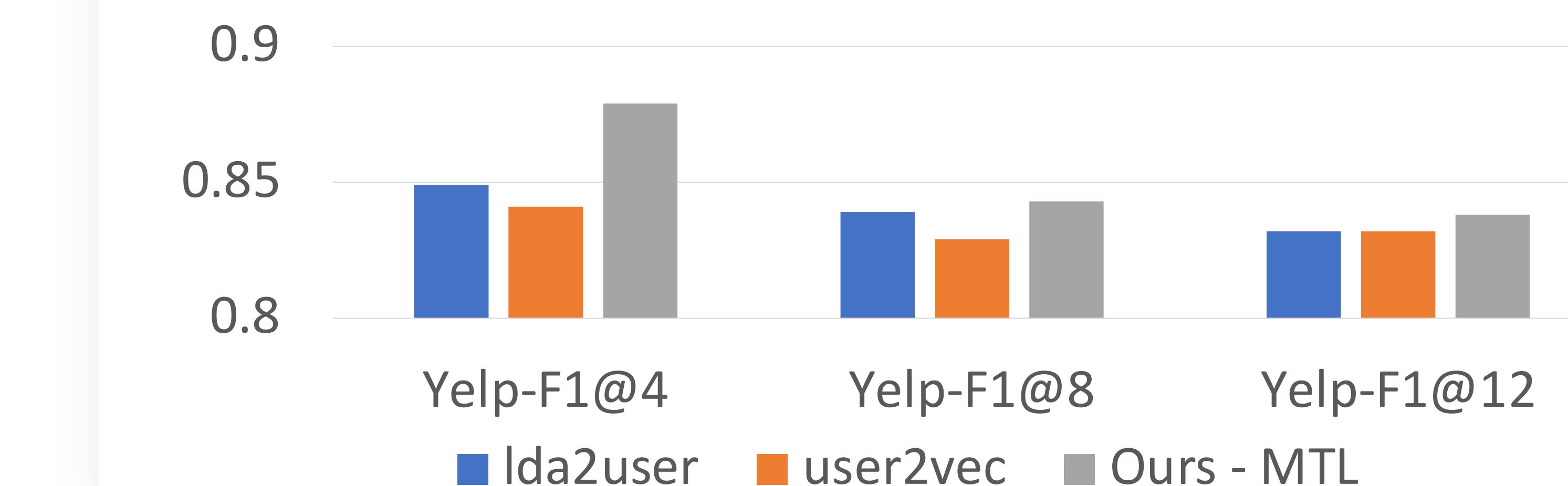
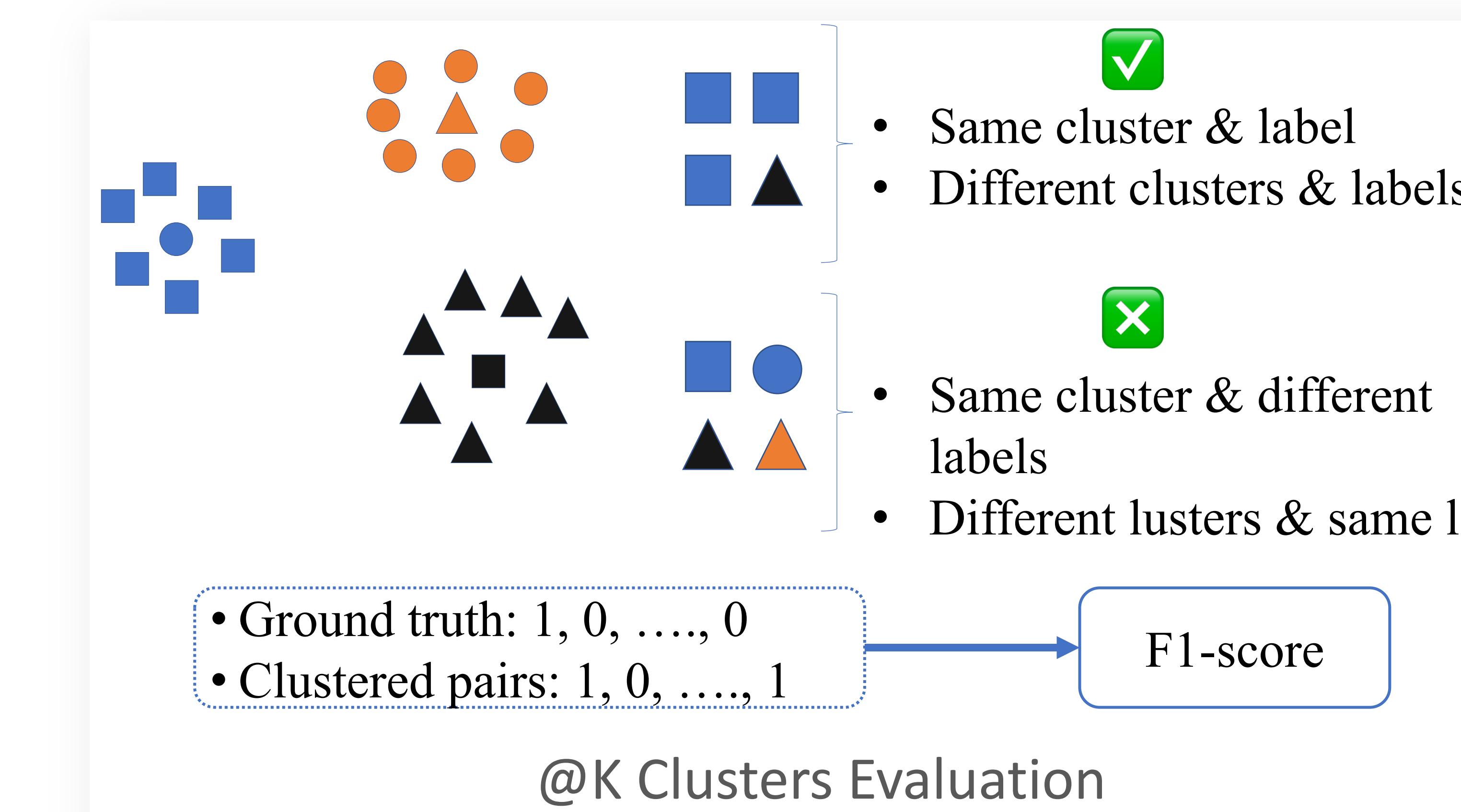
- Language-language
- Language-User
- User-Product
- Product-Language



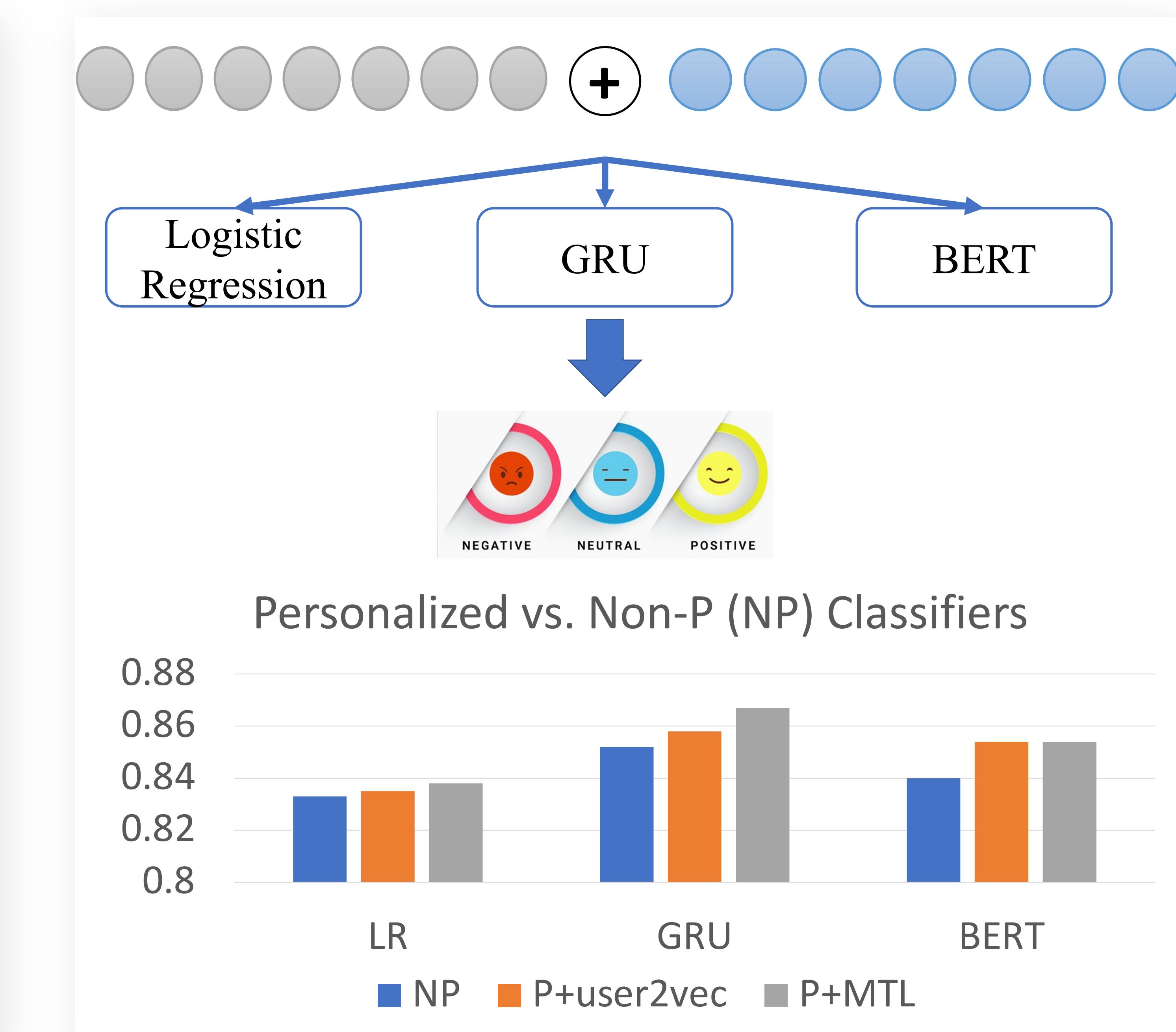
Evaluation Tasks



Semantic Relatedness Task:
Clustering Purity



Classification Task:
Personalized vs. Non-classifiers



Code and Resources repository
<https://github.com/xiaoleihuang/UserEmbedding>

