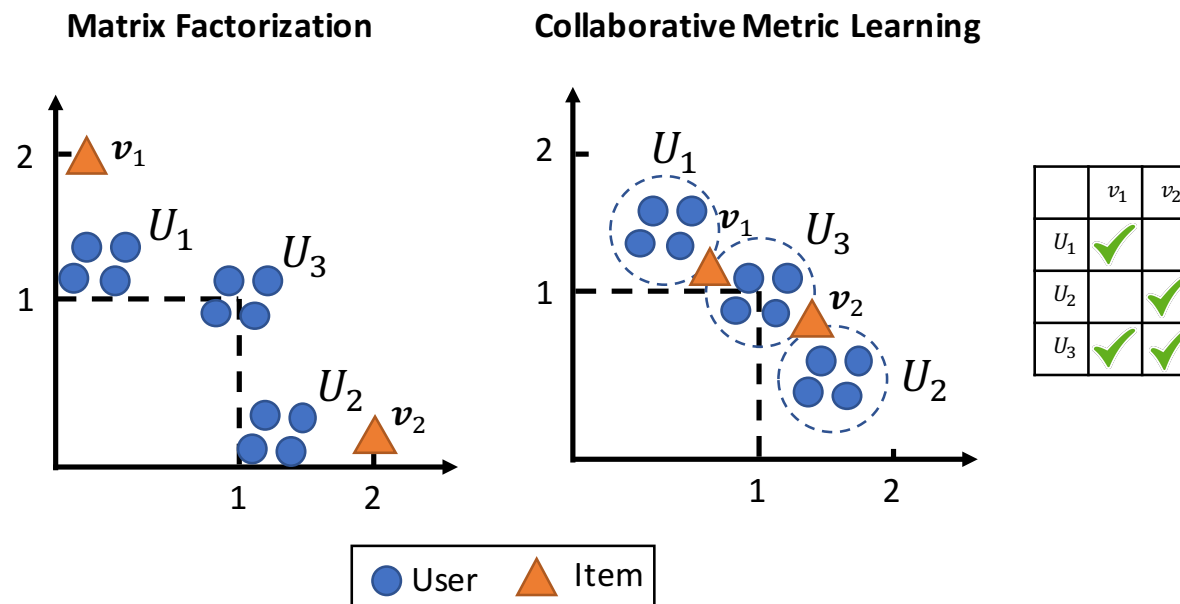


Collaborative Metric Learning (CML) (2/3)

Profits from the phenomenon of *similarity propagation*, because distance metric d respects the *triangle inequality*:

$$\forall u, i, j: \quad d(i, j) \leq d(u, i) + d(u, j)$$

→ Similarity of (u, i) and (u, j) is propagated to (i, j) .



→ User-user and item-item similarities automatically learned.