## GraphSASRec

## Ideas:

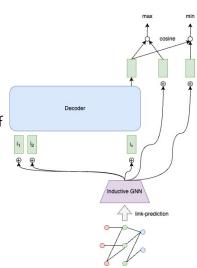
\* Improve next item prediction task with topological information.

## Method:

- \* Build heterogeneous graph.
- \* Learn complex graph representations of items in heterogeneous network.
- \* Link-prediction loss:

$$-\sum_{e \in G} (log \sigma(f(e)) +$$

$$+\sum_{e' \in N(e)} log \sigma(1 - f(e')))$$



\* Reuse freeze graph vectors in SASRec.