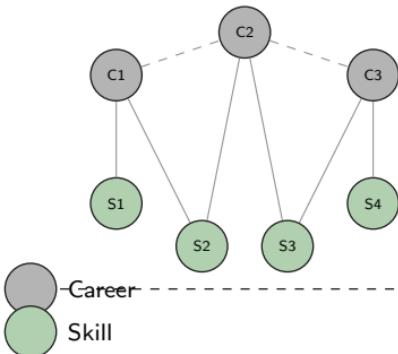


Career-Skill Graph



Node Feature Init
(Career: 64-dim, Skill: 64-dim)

Graph Convolution Layer 1
64→128-dim

Graph Convolution Layer 2
128→128-dim

Readout / Pooling
Mean aggregation

Link Prediction Head
Dense(256→1, Sigmoid)

Transition Probability

Graph Convolution:

$$h_v^{(l+1)} = \sigma \left(W^{(l)} \sum_{u \in N(v)} \frac{h_u^{(l)}}{|N(v)|} \right)$$