$$Z_L^{(l+1)} = \sigma\left(W_{L_O}\left(E^{(1)} \cdot \left(E^{(l)}\right)^\top W_{L_I}\right) + b_L\right)$$

$$Z_C^{(l+1)} = \sigma\left(W_{C_O}\left(E^{(l)} \cdot \left(E^{(l)}\right)^\top W_{C_I}\right) + b_C\right)$$

$$Z_D^{(l+1)} = \sigma\left(W_D E^{(l)} + b_D\right)$$

α Low-Rank Interaction Block

β High-Rank Interaction Block

γ Implicit Interaction Block

Stack $\times$ L layers

NAF

RL I

Fusion Block

Gate

α Low-Rank Interaction Block

β High-Rank Interaction Block

γ Implicit Interaction Block

Embedding Layer