$x \rightarrow q_x^f \rightarrow (ReLU) \rightarrow \max(0, q_x^f) \qquad \Rightarrow \hat{y}_{\Theta^f}(x) \quad x \rightarrow \qquad q_x^v \rightarrow G_x^f \qquad \Rightarrow \hat{y}_{\Theta^{DGN}}(x)$

copy gates

Gating/Feature Network : Θ^f

Hard Gate: $G_x^f = \mathbf{1}_{\{q_x^f > 0\}}$ or Soft Gate: $G_x^f = 1/(1 + \exp(-\beta \cdot q_x^f))$

Weight/Value Network : Θ^{ν}