

# gMLP

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## 0.1 General

$$\begin{aligned}\hat{y}_1 &= \hat{y}_0 \equiv \vec{x} \\ \hat{y}_2 &= \alpha(\hat{y}_1, W_1) \\ \hat{y}_3 &= \alpha(\hat{y}_2, W_2) \\ &\vdots \\ \hat{y}_{n-1} &= \alpha(\hat{y}_{n-2}, W_{n-2}) \\ \hat{y}_n &= \alpha(\hat{y}_{n-1}, W_{n-1})\end{aligned}\tag{0.1}$$

$$\begin{aligned}\hat{y}_n &= \alpha(\hat{y}_{n-1}, W_{n-1}) \\ \hat{y}_n &= \alpha(\alpha(\hat{y}_{n-2}, W_{n-2}), W_{n-1}) \\ \hat{y}_n &= \alpha(\alpha(\alpha(\hat{y}_{n-3}, W_{n-3}), W_{n-2}), W_{n-1}) \\ &\vdots \\ \hat{y}_n &= \alpha(\alpha(\alpha(\dots, \alpha(\hat{y}_1, W_1), \dots, W_{n-3}), W_{n-2}), W_{n-1})\end{aligned}\tag{0.2}$$