

MS-NCB v4 White Paper

Incremental regression framework with modular stacks.

Mathematical core:

$$y = w x + b, \quad dw = \eta (y - \hat{y}) x, \quad db = \eta (y - \hat{y})$$

Stack interactions: $Xs' = [Xs, \sum \alpha Y_t]$

Temporal memory: $m_t = \beta m_{t-1} + (1-\beta) a_t$