

MS-NCB v4 White Paper

Incremental regression framework with modular stacks.

Mathematical core:

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

Stack interactions: $Xs' = [Xs, \text{sum alpha } Yt]$

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