

$$\frac{\partial J}{\partial V_{m}} = \frac{\partial J}{\partial V_{m}} (\hat{V}, \hat{V}) V_{C}$$

$$\frac{\partial J}{\partial V_{1}} = \frac{\partial J}{\partial V_{1}} (v_{2}, o_{2}, v_{1}) \cdot v_{1} \cdot v_{2} \cdot$$

date:

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$$\frac{\partial J}{\partial U} = \sum_{-m < j < m} \frac{\partial J}{\partial U} = \sum_{-m < j < m} V_c (\mathring{y} - y)^T$$

$$\frac{\partial J}{\partial V_m} = \sum_{-m < j < m} \frac{\partial J}{\partial V_m} = 0$$

$$9 \otimes w \neq C$$

$$\frac{\partial J}{\partial u_{k}} = \frac{\partial \left(\log \left(6 \left(u_{o}^{T} v_{e}\right)\right)\right)}{\partial u_{k}} = \frac{\sum_{k=1}^{K} \log \left(6 \left(u_{o}^{T} u_{k}^{T} v_{e}\right)\right)}{\partial u_{k}}$$

$$= \frac{-k(-v_c)}{6(-u_k^T v_c)} \cdot 6(-u_k^T v_c) \left(1 - 6(-u_k^T v_c)\right) = k(v_c) \left(1 - 6(-u_k^T v_c)\right)$$

MOXnote

