$\alpha^{cij} = \chi \in \mathbb{R}^{n_i}$ (3.1)

Assumptions:

Solution:

Let C = 1 | y-a[1] |2

a [l] = 6 (W [l] a [l-1] + b [l]) & [2 " for L= 1, 2,3,...,L

Use the Lemma S.I, we have following results

{(L) = 1.2 (Y-a(1)) (-1) . o'(Z[1])

 $= \frac{95}{90} (84) \frac{35}{95} (84)$

 $= \sum_{k=1}^{N_{R+1}} \begin{cases} \sum_{k=1}^{N_{R+1}} \frac{\lambda_{R}(R)}{\lambda_{R}(R)} \end{cases}$

 $\frac{\partial \mathcal{Z}_{k}^{(k+1)}}{\partial \mathcal{Z}_{i}^{(k+1)}} = w_{kj}^{(k+1)} \delta'(\mathcal{Z}_{j}^{(k)})$

 $= \sum_{k=1}^{N_{R+1}} \frac{3\zeta_k^{(2n+1)}}{3\zeta_k^{(2n+1)}} \, \frac{3\zeta_k^{(2n+1)}}{3\zeta_k^{(2n+1)}} \, \left(\mathfrak{T} \not \otimes \mathfrak{T} \right)$

Since $Z_k^{(Q+1)} = \sum_{s=1}^{NL} W_{ks}^{(Q+1)} \delta(Z_s^{(Q)}) + b_k^{(Q+1)}$

Hence, $\int_{j}^{(e)} = \sum_{k=1}^{hen} \int_{k}^{(eni)} w_{kj}^{(eni)} \delta'(Z_{j}^{(e)})$

= 6'(2 j)((W(2+1)) } { (2+1))

f = o'(z(e)) . (w(et)) } f(et)

 $\frac{\partial C}{\partial F_{(\alpha)}^{(\alpha)}} = \frac{\partial S_{(\alpha)}^{(\alpha)}}{\partial C} \frac{\partial F_{(\alpha)}^{(\alpha)}}{\partial F_{(\alpha)}^{(\alpha)}} = \hat{S}_{(\alpha)}^{(\alpha)} \cdot \hat{I} = \hat{S}_{(\alpha)}^{(\alpha)}$

 $= \delta\left(\mathcal{Z}^{[l]}\right) \quad (3.2)$

Define $\begin{cases} [a] = \frac{\partial C}{\partial Z_i^{(1)}} & \text{for } i \leq j \leq N_L, 2 \leq L \leq L \end{cases}$

 $= \delta'(\mathbf{Z}^{(\iota)}) \cdot (\mathbf{A}^{(\iota)} - \mathbf{1}) = \delta'(\mathbf{Z}^{(\iota)}) \cdot (\mathbf{A}^{(\iota)} - \mathbf{1})$

 $\xi^{(\ell)} = \left(\frac{\partial \mathcal{L}}{\partial \xi_{i}^{(\ell)}} \cdot \frac{\partial \mathcal{L}}{\partial \xi_{i}^{(\ell)}}\right)^{\top} \qquad |\xi \mathcal{L} \in \mathcal{L}^{-1}$

 $\frac{\partial C}{\partial W_{ik}^{(n)}} = \sum_{\gamma=1}^{N_{n}} \frac{\partial C}{\partial z_{ij}^{(n)}} \frac{\partial S_{ij}^{(n)}}{\partial z_{ij}^{(n)}} = \frac{\partial C}{\partial z_{ij}^{(n)}} \frac{\partial S_{ij}^{(n)}}{\partial W_{ik}^{(n)}} = \frac{\partial C}{\partial z_{ij}^{(n)}} A_{ik}^{(n-1)} = \int_{0}^{\infty} A_{ik}^{(n-1)} A_{ik}^{(n-1)}$

久之前 的资料不复拿承使用,可能不太適用在有硝序性且針對半來做 飞测 的 烯基伊用。

2· 在肆堂上有提到 LWLR 的概念,是透遇预测 點附近的资料疑会—但绿性迫解,来知该匙的值, 但是在時間序列的 鲎料上,如果想要使用追伯方法,那對 於未來資料 的预测 私又能用當前登料 老预测,更

0 A(L)(X)

Let C= = | | y- a(1) (x) ||2

 $\frac{9P_{(r_3)}^{(r_3)}}{9v_{(r_3)}} = \frac{(v_{(r_3)}(x) - \lambda)}{1} \begin{cases} 1 \\ 1 \end{cases}$

 $\delta_{(r)} = \frac{73_{(r)}}{90} = Q_{(S_{(r)})} \cdot (V_{(r)} - \lambda)$

 $\frac{9P_{(x_1)}^{ij}}{9C} = \frac{9V_{(x_1)}(x)}{9C} \frac{9P_{(x_2)}^{ij}}{9V_{(x_1)}} \Rightarrow \frac{9P_{(x_2)}^{ij}}{9V_{(x_1)}} = \frac{(V_{(x_1)}(x)-\lambda)}{1} \frac{9P_{(x_2)}^{ij}}{9C}$

 $\frac{9 R_{(1)}^{(k)}}{9 C} = \frac{9 R_{(1)}(x)}{9 C} - \frac{9 R_{(1)}^{(k)}}{9 C} = \frac{9 R_{(1)}(x)}{9 R_{(1)}^{(k)}} = \frac{9 R_{(1)}^{(k)}}{9 R_{(1)}^{(k)}} = \frac{\left(R_{(1)}(x) - \lambda\right)}{1} \frac{9 R_{(1)}^{(k)}}{9 C}$

 $=\frac{1}{\left(\wedge^{(L)}(x)-\frac{1}{2}\right)}\left(G'(Z^{(R)})\circ\left(W^{(R+1)}\right)^{T}\delta^{(R+1)}\right)_{j}\Lambda_{k}^{(R-1)}$

 $= \frac{1}{\left(\, \boldsymbol{\wedge}^{\text{(c)}}(\boldsymbol{x}) \, \boldsymbol{-} \boldsymbol{/} \right)} \left(\boldsymbol{\delta}' \big(\, \boldsymbol{Z}^{\text{(2)}} \big) \, \boldsymbol{\delta} \, \left(\, \boldsymbol{w}^{\, \, \text{(R+1)}} \right)^{\! \top} \, \boldsymbol{\delta}^{\, \, \text{(R+1)}} \right)_{\! \boldsymbol{i}}$

 $= \frac{1}{\left(A^{(c,j)}(x) - \lambda \right)} \prod_{s=0}^{c-1} \left(A^{(c,s)} \right) \circ \left(A^{(c,s+1)} \right)_{s}^{\perp} \left(A^{(c,s+1)} \right)_{s}^{\perp} A^{(c,s+1)}$

So when we calculate the vacus(x) we need calculate the forward part, Z(R), a (L)

and calculate the backward part $f^{(L)}$, $f^{(L-1)}$..., $f^{(L)}$

 $\frac{\partial M_{\text{tr}}}{\partial M_{\text{tr}}} = \frac{1}{\left(V_{\text{tr}}(x) - \lambda\right)} \left(\int_{\hat{Q}} V_{\text{tr}} V_{\text{$