```
\underset{x_i w_i}{ReLU}(x) = \max(0, x)
                                                                      wEw
                                                                      EE
                                                                      ll_2 f x_i i I w_i
                                                                      E
                                                                    V_i^{a_i w_i w_i}
                                                                  \begin{array}{l} \hat{x}ix|V_i|V_i\\ {}_aeAnAutoencoder(left)andaMulti-LayerPerceptron(right).The intensity of the grey in each neuron symbolizes its and $N-1N-1$ system.pdf $Cooperative Reconstruction System. In this example, $Views 1 and 3 are sending their coded version of the indicated by $N-1$ $N^2$ $V_iV_jijV_i|_jV_iV_iV_j$ $iV_{\cdot\cdot\cdot}V_{\cdot\cdot}i$ $iV_{\cdot\cdot}V_{\cdot\cdot}i$ $iV_{\cdot\cdot\cdot}V_{\cdot\cdot}i$ $iV_{\cdot\cdot\cdot}V_{\cdot\cdot}i$ $iV_{\cdot\cdot\cdot}V_{\cdot\cdot}i$ $iV_{\cdot\cdot\cdot}V_{\cdot\cdot}i$ $iV_{\cdot\cdot\cdot}V_{\cdot\cdot}i$ $iV_{\cdot\cdot\cdot}V_{\cdot\cdot}i$ $iV_{\cdot\cdot}V_{\cdot\cdot}i$ $iV_{\cdot\cdot}i$ $iV_{\cdot\cdot}V_{\cdot\cdot}i$ $iV_{\cdot\cdot}V_{\cdot\cdot}i$
                                                               \begin{array}{l} V_{i}V_{j}iJ_{i}V_{i|j}V_{i}V_{i}V_{i}\\ jV_{j|i}V_{ji}\\ ijV_{j|i}J_{i|j}V_{i|j}V_{i|j}V_{j|i}V_{i}V_{j}\\ jV_{i|j}\\ V_{j|i}V_{i|j}\\ V_{i|j} = \{\emptyset\}ijji\\ N-1N-1\\ iN-1W_{i} = \{w_{i|j},\ j\in[1..N]\setminus i\}w_{i|j}V_{i}\widetilde{x_{i}}\\ \end{array}
\begin{split} & \overset{\bigotimes}{W_{i}} E_{i} \underset{i}{i} \sum_{x_{i} \in V_{i}} ||x_{i} - \widetilde{x}_{i}||^{2} \\ &= \frac{1}{|V_{i}|} \sum_{x_{i} \in V_{i}} \sum_{k=1}^{\dim(V_{i})} \left(x_{i}^{k} - \widetilde{x}_{i}^{k}\right)^{2} \\ &= \frac{1}{|V_{i}|} \sum_{x_{i} \in V_{i}} \sum_{k=1}^{\dim(V_{i})} \left(x_{i}^{k} - \sum_{j \in [1..N] \backslash i} w_{i|j}^{k} x_{i|j}^{k}\right)^{2} \\ &= \frac{1}{|X_{i}|} \sum_{x_{i} \in V_{i}} \sum_{k=1}^{\dim(V_{i})} \left(x_{i}^{k} - \sum_{j \in [1..N] \backslash i} w_{i|j}^{k} x_{i|j}^{k}\right)^{2} \\ &= \frac{1}{|X_{i}|} \sum_{x_{i} \in V_{i}} \sum_{k=1}^{\dim(V_{i})} \left(x_{i}^{k} - \sum_{j \in [1..N] \backslash i} w_{i|j}^{k} x_{i|j}^{k}\right)^{2} \\ &= \frac{1}{|X_{i}|} \sum_{x_{i} \in V_{i}} \sum_{k=1}^{\dim(V_{i})} \left(x_{i}^{k} - \sum_{j \in [1..N] \backslash i} w_{i|j}^{k} x_{i|j}^{k}\right)^{2} \end{split}
                                                                    \frac{\partial E}{\partial w_{i|j}^k = \frac{2}{|V_i|} \sum_{x_i \in V_i} x_{i|j}^k \left( \sum_{j \in [1..N] \backslash i} w_{i|j}^k x_{i|j}^k - x_i^k \right) = \frac{2}{|V_i|} \sum_{x_i \in V_i} x_{i|j}^k \left( \widetilde{x}_i^k - x_i^k \right)}

\begin{array}{l}
\epsilon > 0 \\
E_i \\
\partial E_i -
\end{array}

                                                                                                                       \partial w_{i|j}^{k} = 0 \Rightarrow \frac{2}{|V_{i}|} \sum_{x_{i} \in V_{i}} x_{i|j}^{k} \left( \widetilde{x}_{i}^{k} - x_{i}^{k} \right) = 0 \Rightarrow \sum_{x_{i} \in V_{i}} \left( (x_{i|j}^{k})^{2} w_{i|j}^{k} + x_{i|j}^{k} \left( \sum_{j' \in [1..N] \backslash \{i,j\}} w_{i|j'}^{k} x_{i|j'}^{k} - x_{i}^{k} \right) \right) = 0 \Rightarrow w_{i|j}^{k} \sum_{x_{i} \in V_{i}} (x_{i|j}^{k})^{2} = \sum_{x_{i} \in V_{i}} \left( (x_{i|j}^{k})^{2} w_{i|j'}^{k} + x_{i|j}^{k} \left( \sum_{j' \in [1..N] \backslash \{i,j\}} w_{i|j'}^{k} x_{i|j'}^{k} - x_{i}^{k} \right) \right) = 0 \Rightarrow w_{i|j}^{k} \sum_{x_{i} \in V_{i}} (x_{i|j}^{k})^{2} = \sum_{x_{i} \in V_{i}} \left( (x_{i|j}^{k})^{2} w_{i|j'}^{k} + x_{i|j'}^{k} \left( \sum_{j' \in [1..N] \backslash \{i,j\}} w_{i|j'}^{k} x_{i|j'}^{k} - x_{i}^{k} \right) \right) = 0 \Rightarrow w_{i|j}^{k} \sum_{x_{i} \in V_{i}} \left( (x_{i|j}^{k})^{2} w_{i|j'}^{k} + x_{i|j'}^{k} \left( \sum_{j' \in [1..N] \backslash \{i,j\}} w_{i|j'}^{k} - x_{i}^{k} \right) \right) = 0 \Rightarrow w_{i|j}^{k} \sum_{x_{i} \in V_{i}} \left( (x_{i|j}^{k})^{2} w_{i|j'}^{k} + x_{i|j'}^{k} \left( \sum_{j' \in [1..N] \backslash \{i,j\}} w_{i|j'}^{k} - x_{i|j'}^{k} \right) \right) = 0 \Rightarrow w_{i|j}^{k} \sum_{x_{i} \in V_{i}} \left( (x_{i|j}^{k})^{2} w_{i|j'}^{k} + x_{i|j'}^{k} \left( \sum_{j' \in [1..N] \backslash \{i,j\}} w_{i|j'}^{k} - x_{i|j'}^{k} \right) \right) = 0 \Rightarrow w_{i|j}^{k} \sum_{x_{i} \in V_{i}} \left( (x_{i|j}^{k})^{2} w_{i|j'}^{k} + x_{i|j'}^{k} \left( \sum_{j' \in [1..N] \backslash \{i,j\}} w_{i|j'}^{k} - x_{i|j'}^{k} \right) \right) = 0 \Rightarrow w_{i|j}^{k} \sum_{x_{i} \in V_{i}} \left( (x_{i|j}^{k})^{2} w_{i|j'}^{k} + x_{i|j'}^{k} \left( \sum_{j' \in [1..N] \backslash \{i,j\}} w_{i|j'}^{k} - x_{i|j'}^{k} \right) \right) = 0 \Rightarrow w_{i|j}^{k} \sum_{x_{i} \in V_{i}} \left( (x_{i|j}^{k})^{2} w_{i|j'}^{k} - x_{i|j'}^{k} \right) \right) = 0 \Rightarrow w_{i|j}^{k} \sum_{x_{i} \in V_{i}} \left( (x_{i|j}^{k})^{2} w_{i|j'}^{k} - x_{i|j'}^{k} \right) \right) = 0 \Rightarrow w_{i|j}^{k} \sum_{x_{i} \in V_{i}} \left( (x_{i|j'}^{k})^{2} w_{i|j'}^{k} - x_{i|j'}^{k} \right) = 0 \Rightarrow w_{i|j'}^{k} \sum_{x_{i} \in V_{i}} \left( (x_{i|j'}^{k})^{2} w_{i|j'}^{k} - x_{i|j'}^{k} \right) \right) = 0 \Rightarrow w_{i|j'}^{k} \sum_{x_{i} \in V_{i}} \left( (x_{i|j'}^{k})^{2} w_{i|j'}^{k} - x_{i|j'}^{k} \right) \right) = 0 \Rightarrow w_{i|j'}^{k} \sum_{x_{i} \in V_{i}} \left( (x_{i|j'}^{k})^{2} w_{i|j'}^{k} - x_{i|j'}^{k} \right) = 0 \Rightarrow w_{i|j'}^{k} \sum_{x_{i} \in V_{i}} \left( (x_{i|j'}^{k})^{2} w_{i|j'}^{k} - x_{i|j'}^{k} \right) \right) = 0 \Rightarrow w_{i|j'}^{k} \sum_{x_{i} \in V_{i}} \left( (x_{i|j'}^{k
                                                                  w_{i|j}^k\{w_{i|j'}^k,j'\in[1..N]\backslash\{i,j\}\}\{w_{i|j'}^{k,t},j'\in[1..N]\backslash\{i,j\}\}tw_{i|j}^{k,t+1}t+1
               Wisconsin Diagnostic Breast Cancer (WDBC)
           Multi-Features Digital Dataset (MFDD) \times
           \begin{array}{c} \textit{Madelon} \\ \textit{Cube} 0.1(0,0,0)(1,0,0)(0,1,0)(0,0,1) \\ \textit{Kxy}\{x_i\}_{i \in [1..K]}\{y_i\}_{i \in [1..K]} \end{array}
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