$\vec{\mathcal{E}} = \begin{bmatrix} \mathcal{E}_1 \\ \vdots \\ \mathcal{E}_m \end{bmatrix}$

$$\vec{\chi} = \begin{bmatrix} 1 & \chi_{11} & \dots & \chi_{1n} \\ \vdots & \ddots & \ddots \\ 1 & \chi_{m1} & \dots & \chi_{mn} \end{bmatrix}$$

$$1 \times_{m_1} \dots \times_{m_n}$$

$$\vec{j} = \begin{bmatrix} y_1 \\ y_m \end{bmatrix} \quad \vec{b} = \begin{bmatrix} b_0 \\ \vdots \\ b_N \end{bmatrix}$$

$$b = \frac{b}{x} \cdot \hat{s}$$

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