$$\sum_i \alpha_i + \frac{1}{M} \sum_i \sum_{j \le n_i} \left(\frac{f(X_{i,j})}{p\_c(X_{i,j})} - \frac{\sum_k \alpha_k p_k(X_{i,j})}{p\_c(X_{i,j})} \right)$$

where

$$\begin{aligned}
\alpha &\in \mathbb{R}^N \\
p_j &\in \mathbb{R} \to \mathbb{R} \\
X &\in \mathbb{R}^{N \times m} \\
M &\in \mathbb{R} \\
n_i &\in \mathbb{R} \\
f &\in \mathbb{R} \to \mathbb{R} \\
p_c &\in \mathbb{R} \to \mathbb{R}
\end{aligned}$$