$$\mathrm{PPL}_M(x_i) = \frac{\sum_{k=1}^{K} \mathrm{PPL}_M(t_k^i | t_{<k}^i, t_{<i})}{K} \tag{1}$$

$$\mathrm{Minima}_{index}(\mathrm{PPL}_{seq}) = \Big\{ i \;\Big|\; \min(\mathrm{PPL}_M(x_{i-1}), \mathrm{PPL}_M(x_{i+1})) - \mathrm{PPL}_M(x_i) > \theta, \\ or\ \mathrm{PPL}_M(x_{i-1}) - \mathrm{PPL}_M(x_i) > \theta\ and\ \mathrm{PPL}_M(x_{i+1}) = \mathrm{PPL}_M(x_i) \Big\} \tag{2}$$

$$\mathrm{PPL}_{seq} = (\mathrm{PPL}_M(x_1), \mathrm{PPL}_M(x_2), ..., \mathrm{PPL}_M(x_n)) \tag{3}$$