

# Judge for the Data Contest

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## 1 Data Generation

$$\sum_i^N A_i f_{\text{PE}}(t - T_i - \Delta t) + \epsilon$$
$$\begin{aligned}\Delta t &\sim \mathcal{N}(0, 3)\text{ns} \\ A_i &\sim \mathcal{N}(1, 0.3) \\ \epsilon &\sim \mathcal{N}(0, 1)\end{aligned}\tag{1}$$

## 2 Target Function

Suppose  $\{T_i\}$  is the true sequence and a contestant submits  $\{G_j\}$ . 2 target functions are considered:

$$\int (\sum_i f_{\text{PE}}(t - T_i) - \sum_j f_{\text{PE}}(t - G_j))^2 dt \tag{2}$$

$$\int |\text{CDF}_T(t) - \text{CDF}_G(t)| dt \tag{3}$$