Input

Stage I. Policy-Driven Difficulty

Dataset

LLM

$$f_d(x) = 1 - \frac{1}{N}\sum_{i=1}^{N} P(a_i)$$

a_1 a_2 ... a_N

$<x, y>$

Stage II. Pace-Adaptive Selection

Density

Epoch e-2

Epoch e-1

Epoch e

Difficulty

λ

Filtered Subset

Fine-tuning

Output

Optimal Subset

L $=$ Q Φ^T Φ Q

Embedding Feature

Difficulty Score

Stage III. Diversity-Promoted Selection via DPP