

Trajectory Generation using Negative World Model

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目的 Train an LLM with both negative and positive check-in transitions so it can better capture nuances in user behavior.

内容 First, LoRA fine-tune Llama-3.2-3B on negative samples to predict the next POI and time. Then, further fine-tune it on positive samples to infer POI transition motivations. Finally, use the model to generate full trajectories for a given date.

結果 Training with a mix of positive and negative samples improves performance, with the best positive sample ratio being 0.6.

利用した計算機 SQUID 汎用CPUノード群
ノード時間 300 時間
使用メモリ 4, 000 GB
並列化 8 GPU 並列

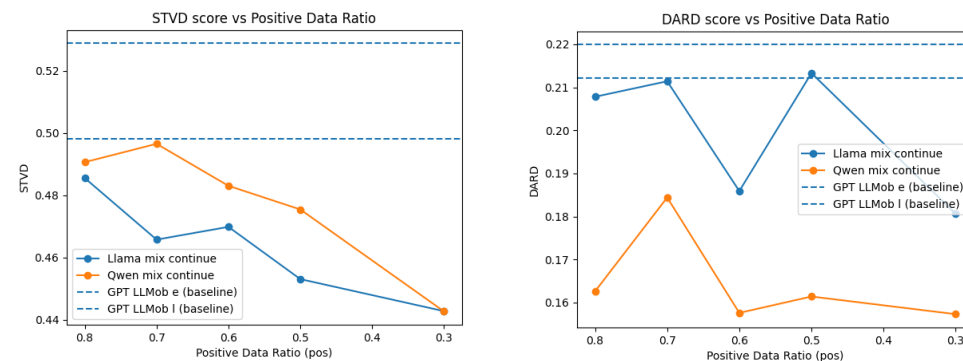


図 (STVD/DARD結果)