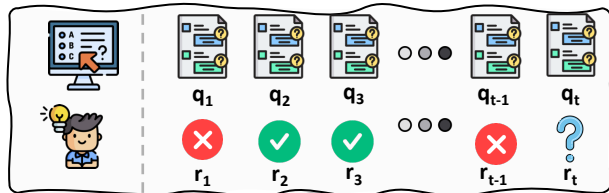


“Learning interactions with IDs”



conversion

“Learning interactions with multi-turn dialogues”



<history> null **<history>**, **<query>** Given question q_1 , involving concept c_1 . Prediction whether the student will response correctly, Yes or No. **<query>**

(null), ($q_1, ?$)

r_1

No



○ growing historical
● records over time



<history> The student has answered question q_1 involving concept c_1 **incorrectly** at time 1, ..., question q_{t-1} involving concept c_{t-1} **incorrectly** at time t-1. **<history>**, **<query>** Given question q_t , involving concept c_t at time t. Prediction whether the student will response correctly, Yes or No. **<query>**

(null), (q_1, r_1), (q_2, r_2), (q_3, r_3), ..., (q_{t-1}, r_{t-1}), ($q_t, ?$)

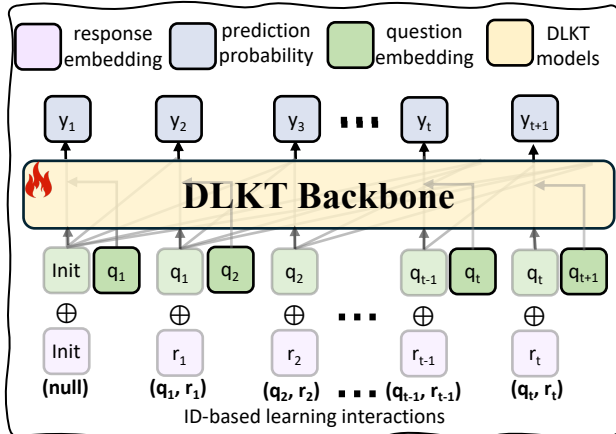
r_t

No

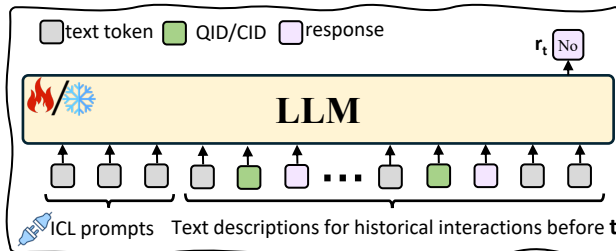


a) Comparison of training dataset formats.

“ID-based DLKT”



“Dialogue-driven LLM-based KT”



b) DLKT vs LLM-based KT.