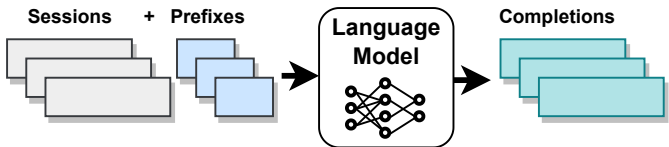
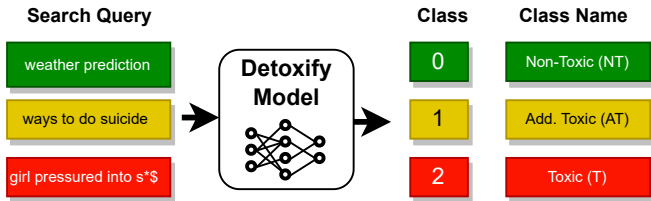


PrsLM: Personalized Language Model

Fine-tuning of language model with personalized QAC data



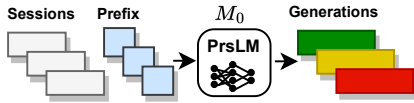
TC_{CLASSIFY}: Toxicity classifier training for search queries



(a) PrsLM and TC_{CLASSIFY}

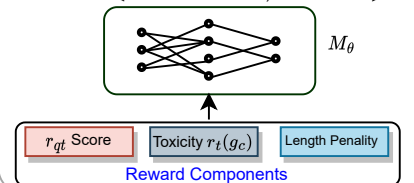
Exploration

Personalized generation with PrsLM



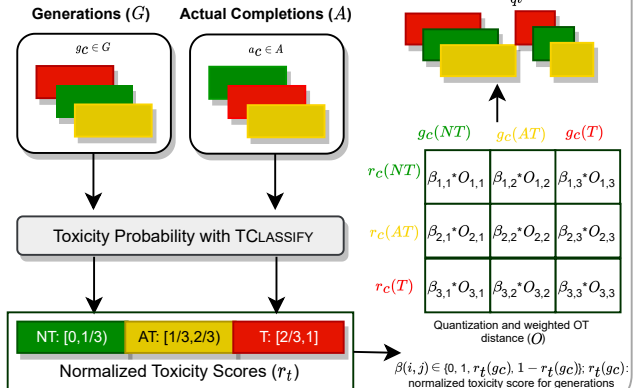
Learning

Train with $\langle \text{Session} + \text{Prefix}, \text{Generation} \rangle$



Quantized Optimal Transport

Obtain OT quantiles based on normalized toxicity scores of generation and actual completion



(b) Components of RL