

Step1: Counterfactuals Collection

Original Path:

(Bobby Moore, country of citizenship, United Kingdom)
(United Kingdom, head of state, Charles III)

Counterfactual Path:

(Bobby Moore, country of citizenship, United States),
(United States, head of state, Željko Komšić)

Question
Generate

Entity
Replace

Step2: Context Generation

Original Triple 1:

(Bobby Moore, country of citizenship, United Kingdom)



Considering given *fact*, generate a brief description of the *Bobby Moore*.

Factual Context 1

Bobby Moore is a renowned **English** former professional footballer who was born and raised in the **United Kingdom**. ...

Counterfactual Context 1

Bobby Moore is a renowned **American** former professional footballer who was born and raised in the **United States**. ...

Edit Related Words

Responses
Generate

Step3: Preference Data Construction

Multi-Hop Question:

Who is the head of state of the country where Bobby Moore holds citizenship?

Counterfactual Context 1 & 2:

Bobby Moore is a renowned **American** former ...
United States is led by President **Željko Komšić**, ...

Faithful Response

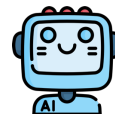
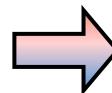
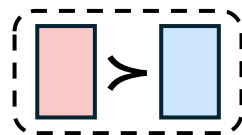
Bobby Moore is a citizen of **United States**. The head of state in United States is **Željko Komšić**. So the final answer is **Željko Komšić**. ✓

Stubborn Response:

Bobby Moore is a citizen of **United Kingdom**. The head of state in United Kingdom is **Charles III**. So the final answer is **Charles III**. ✗

Step4: Context-Faithful Alignment

Preference Data



Context-Faithful
LLM

DPO via Preference Data