Feedback as Model Interpolation

Document D $\longrightarrow$ θ_D

$$D(\theta_Q \| \theta_D) \longrightarrow \text{Results}$$

Query Q $\longrightarrow$ θ_Q

$$\theta_Q' = (1 - \alpha)\theta_Q + \alpha\theta_F \longleftarrow \theta_F \longleftarrow \text{Feedback Docs}$$
$$F = \{d_1, d_2, \ldots, d_n\}$$

α=0   **α=1**

$\theta_Q' = \theta_Q$ $\theta_Q' = \theta_F$

No feedback   **Full feedback**

Generative model

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