

AscendOptimizer

$$\arg \min_{T,K} \mathcal{L}(\text{Exec}(T, K, S) | H)$$

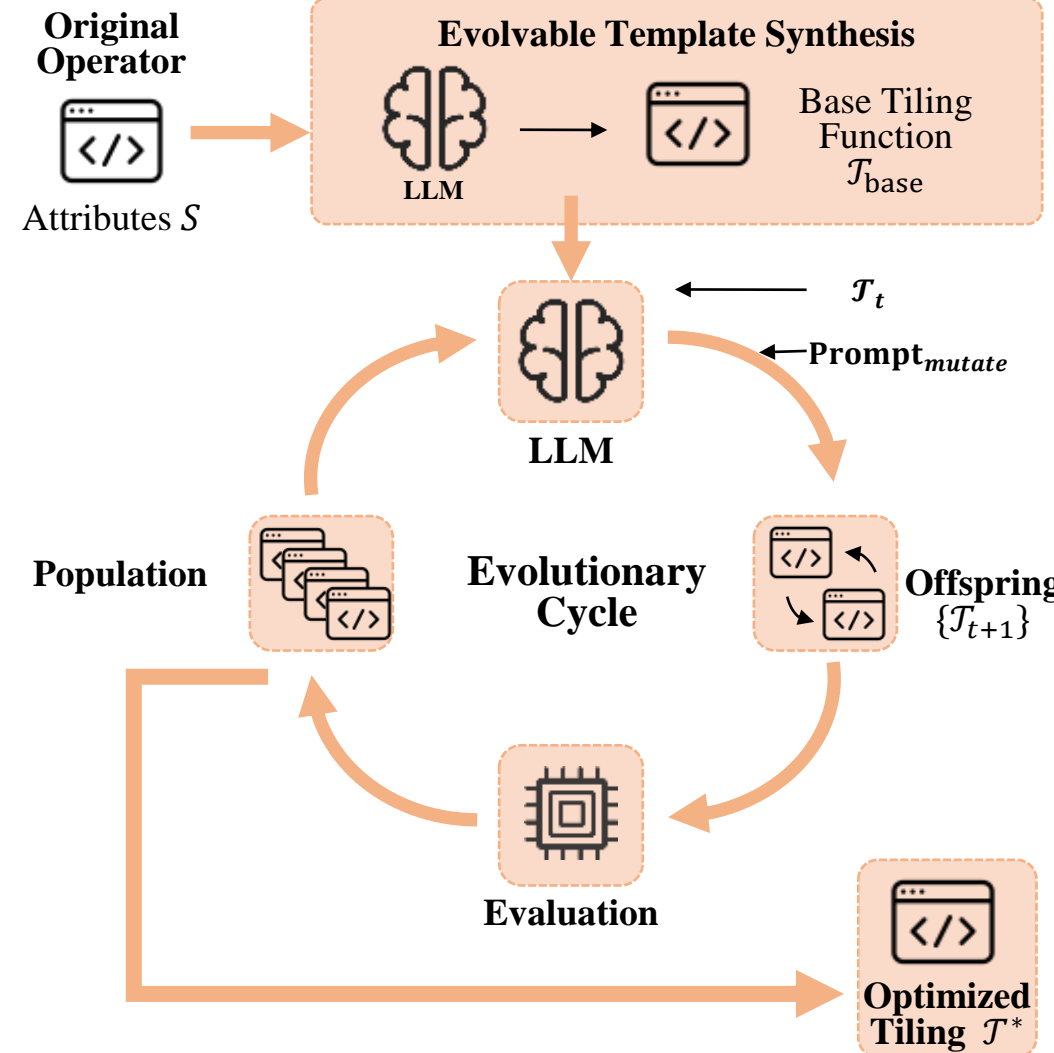
**Iterative
optimization**

Fix K,
Optimize T
(Stage I)

Fix T,
Optimize K
(Stage II)

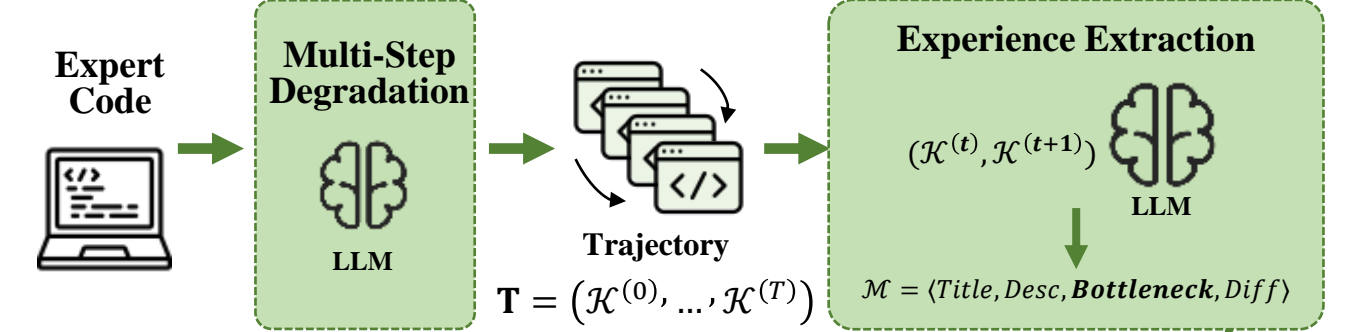
Optimal T^*, K^*

Stage I: Evolutionary-Guided Program Search (\mathcal{T})



Stage II: Optimization-Rewind based Experience Bootstrapping (\mathcal{K})

Offline Experience Construction



Online Iterative Refinement

