

①

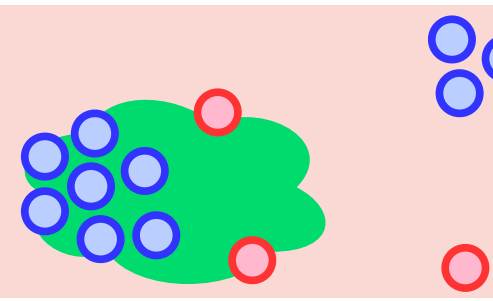
Time step

$t + 1$

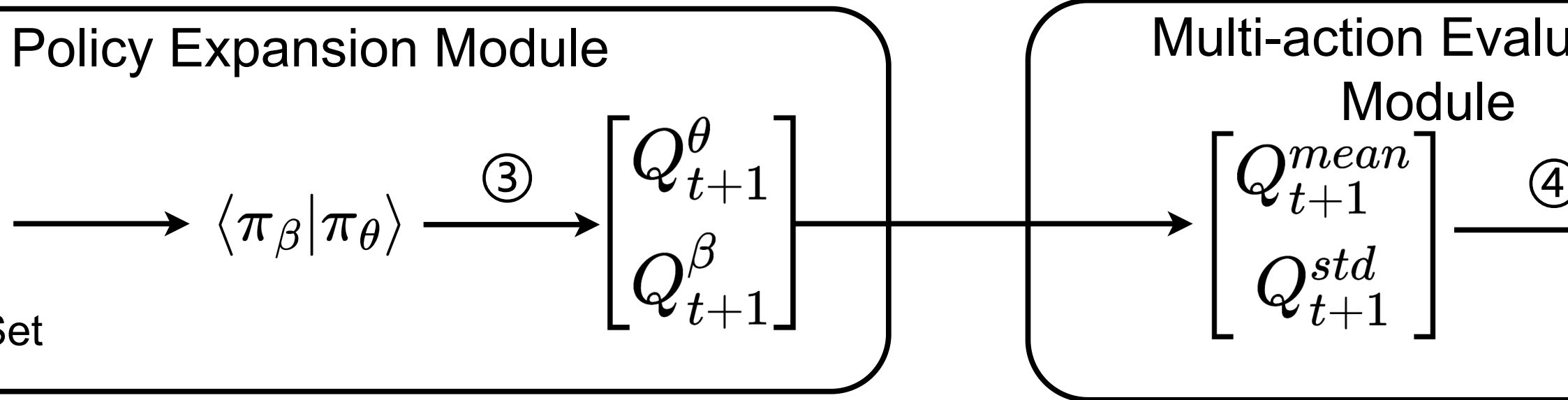
③ $Q_{\beta}(s_t, a$

Finalist Action S

②



$$Q_{\hat{\beta}}(s_t, a_t) \leftarrow r(s_t, a_t) + \gamma \mathbb{E}_{s_{t+1} \sim p(\cdot | s, a), a_{t+1} \sim \pi(\cdot | s)} [Q_{\hat{\beta}}(s_{t+1}, a_{t+1} | \theta, \beta)]$$



$$a_{t+1} \sim \pi_{\theta, \beta}(\cdot | s_t)$$

$$\textcircled{4} \quad a_e = \arg_{a \in D} \{Q_{mean}(s_{t+1}, a_t)\}$$

Temporally - Align
Representation Learning

$\theta, \beta)$

ation

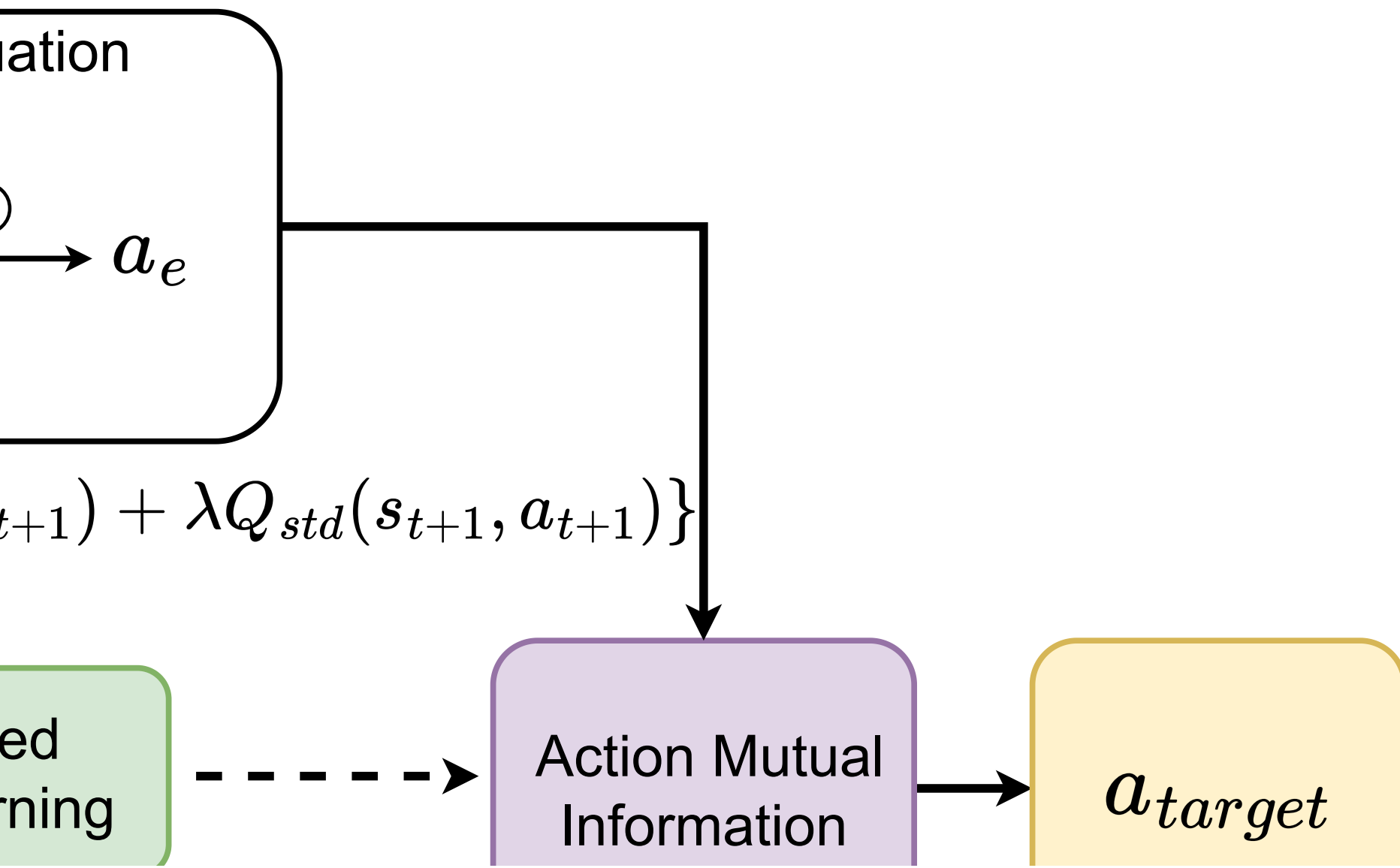
a_e

$t+1) + \lambda Q_{std}(s_{t+1}, a_{t+1})\}$

ed
rning

Action Mutual
Information

a_{target}



①

Time step

t

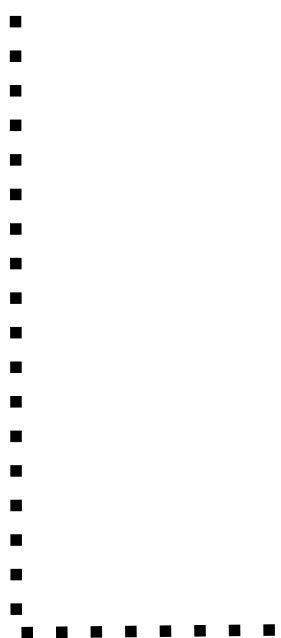


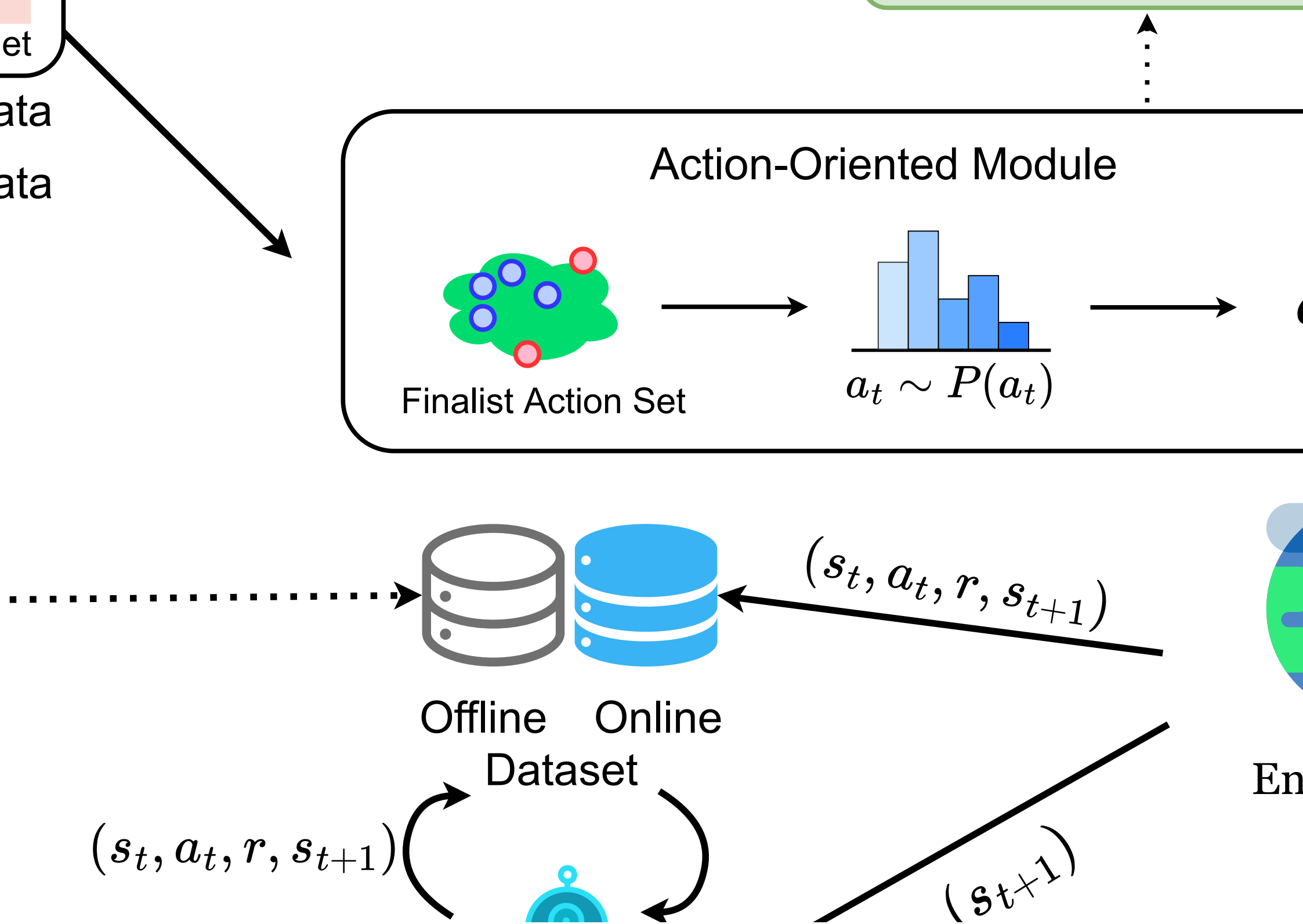
Offline data

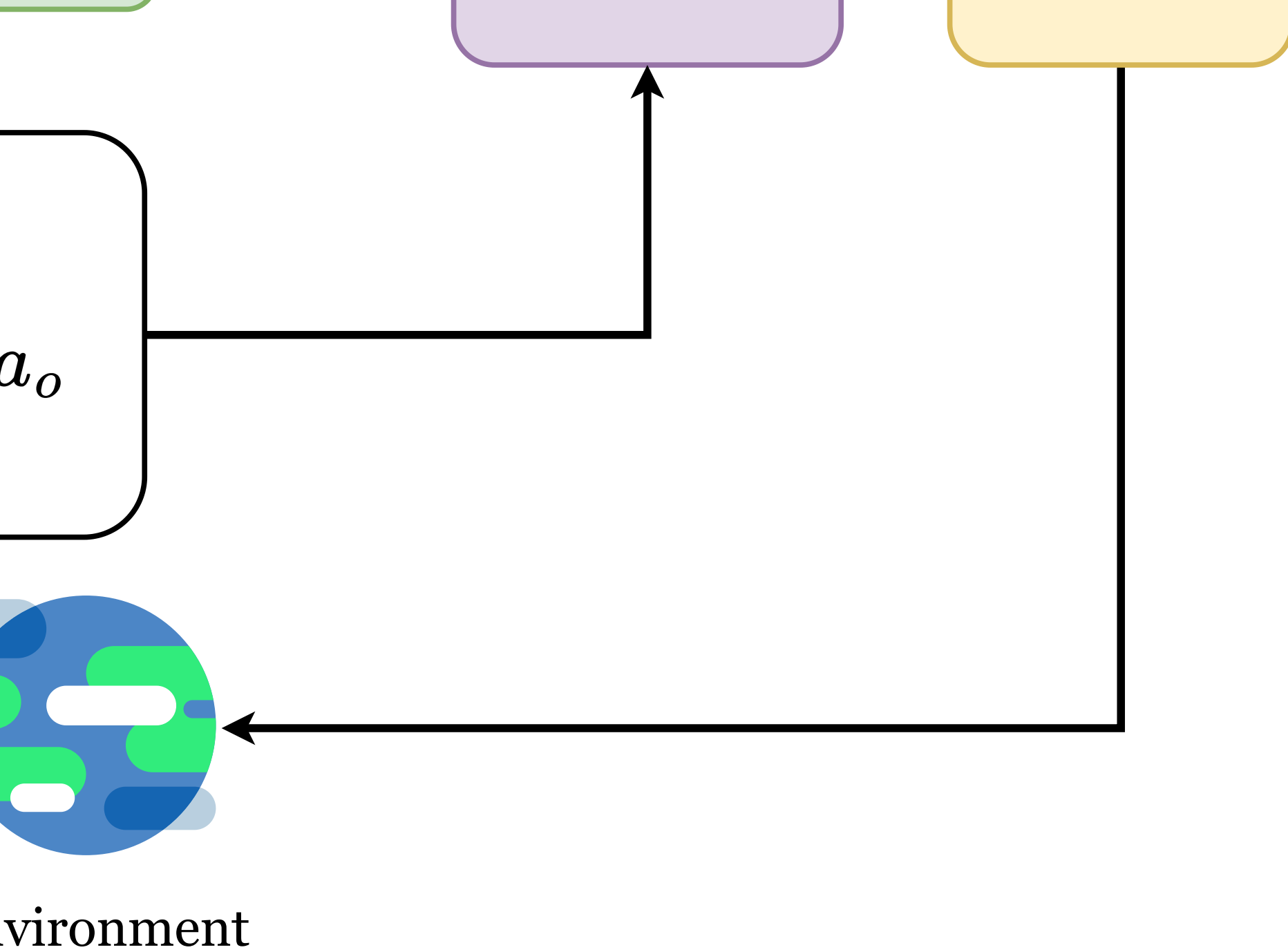


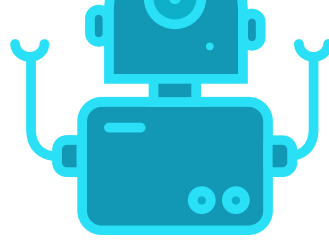
Online data

Candidate Action S









Agent



