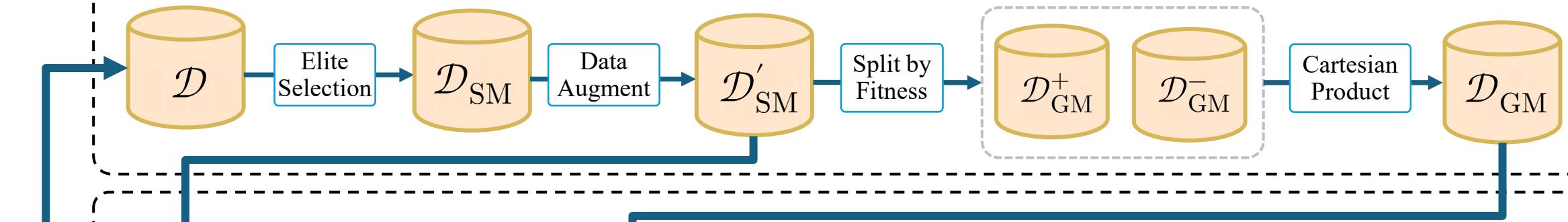


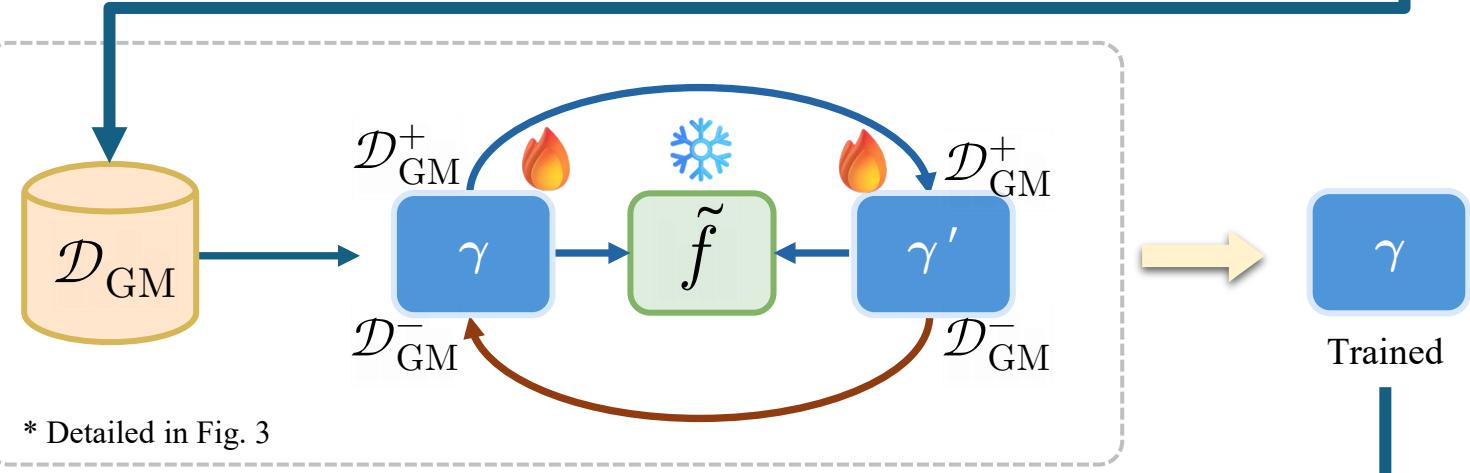
Data Preparation



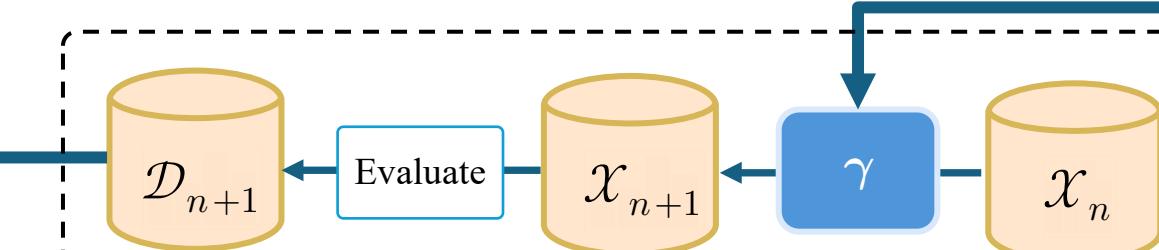
Add

Model Training

* Detailed in Fig. 3



Population Generation



\mathcal{D} : Historical Dataset

\mathcal{D}_{SM} : High-Quality Dataset

\mathcal{D}'_{SM} : Surrogate Model Dataset

\tilde{f} : Surrogate Model

γ : Regular Generative Model

γ' : Pseudo-inverse Generative Model

\mathcal{D}_{GM}^+ : Superior Subset

\mathcal{D}_{GM}^- : Inferior Subset

\mathcal{D}_{GM} : Generative Model Dataset

X_n : Latest Population

Trainable Module

Frozen Module