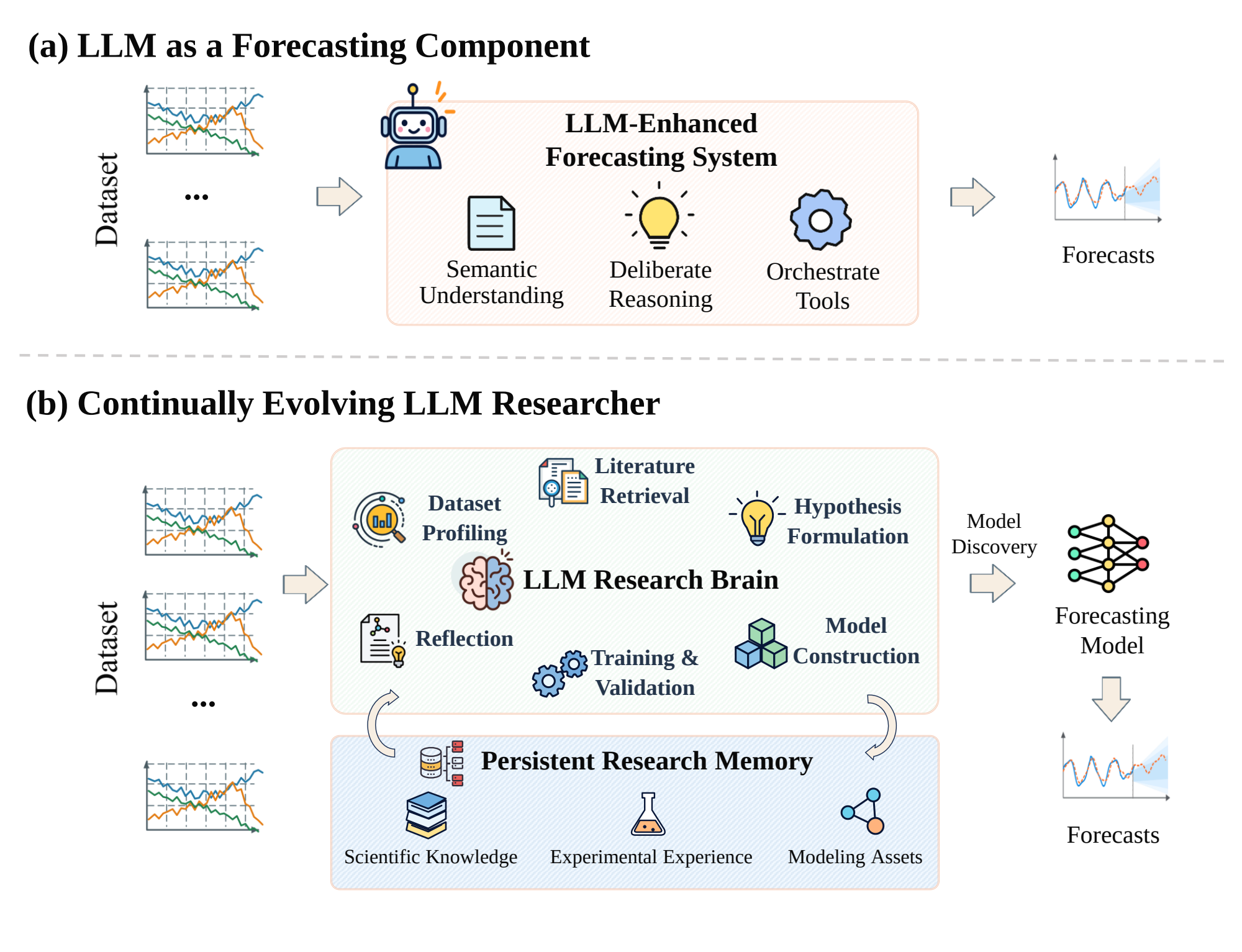

(a) LLM as a Forecasting Component
Dataset
...
LLM-Enhanced
Forecasting System
Semantic
Understanding
Deliberate
Reasoning
Orchestrate
Tools
Forecasts
(b) Continually Evolving LLM Researcher
Dataset
...
Literature
Retrieval
Dataset
Profiling
Hypothesis
Formulation
LLM Research Brain
Reflection
Model
Construction
Training &
Validation
Persistent Research Memory
Scientific Knowledge
Experimental Experience
Modeling Assets
Model
Discovery
Forecasting
Model
Forecasts