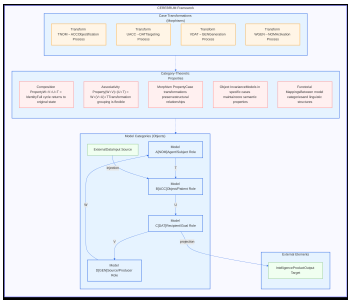


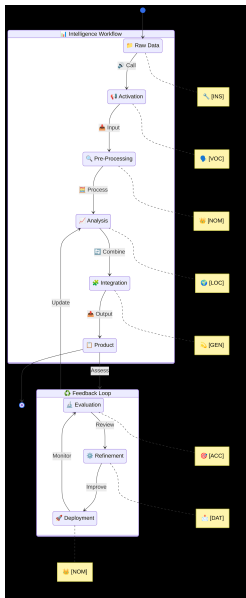
# CEREBRUM: Case-Enabled Reasoning Engine with Bayesian Representations for Unified Modeling

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The Case-Enabled Reasoning Engine with Bayesian Representations for Unified Modeling (CEREBRUM) provides a robust framework for leveraging case studies within computational cognitive science, combining Bayesian inference with structured knowledge representations. CEREBRUM enables researchers to model complex cognitive phenomena by integrating empirical evidence, theoretical constructs, and computational mechanisms into a unified system, facilitating the advancement of active inference theories and applications.



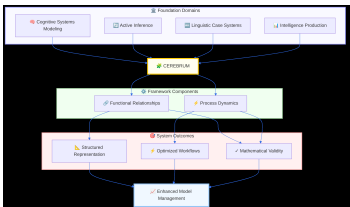
Figure\_7



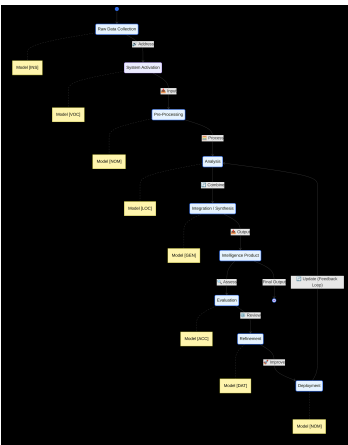
Figure\_12



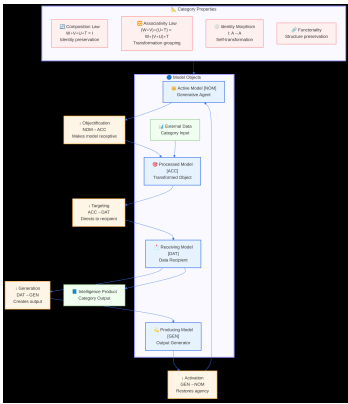
Figure\_2



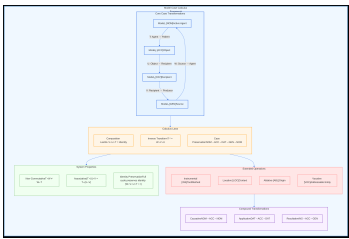
Figure\_1



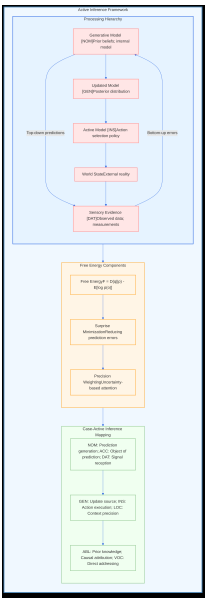
Figure\_11



Figure\_8



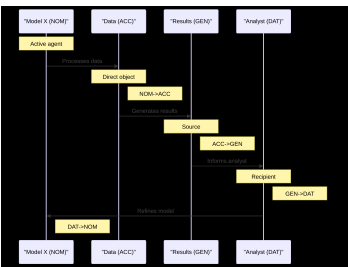
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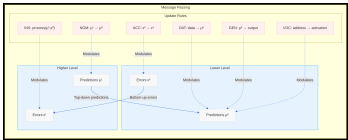
Figure\_13



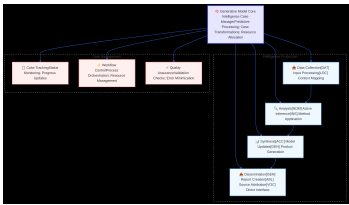
Figure\_6



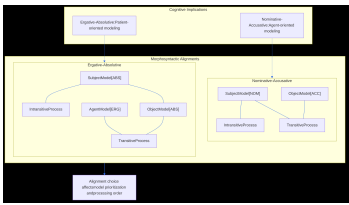
Figure\_5



Figure\_14



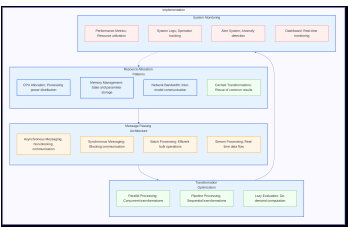
Figure\_4



Figure\_9



Figure\_3



Figure\_10