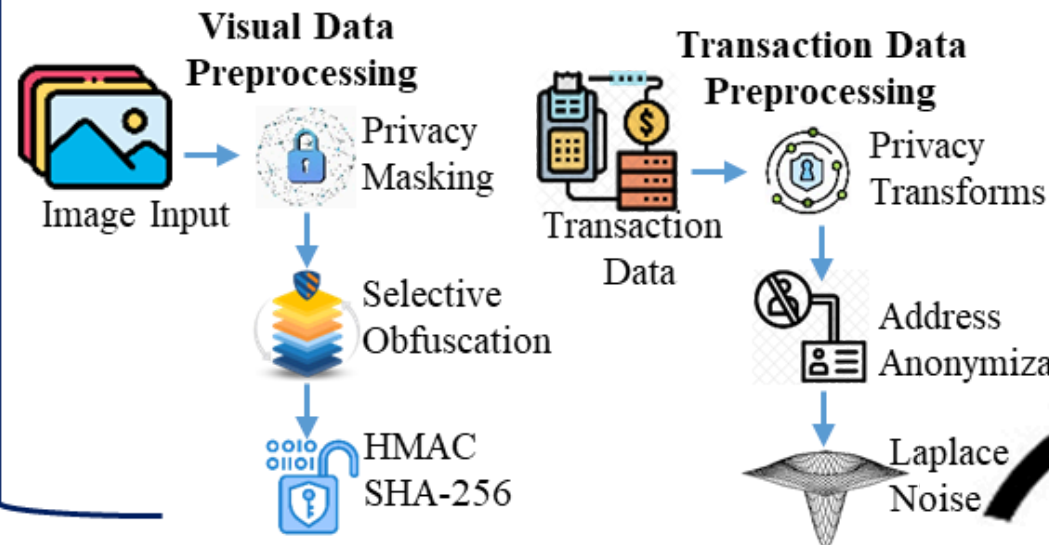
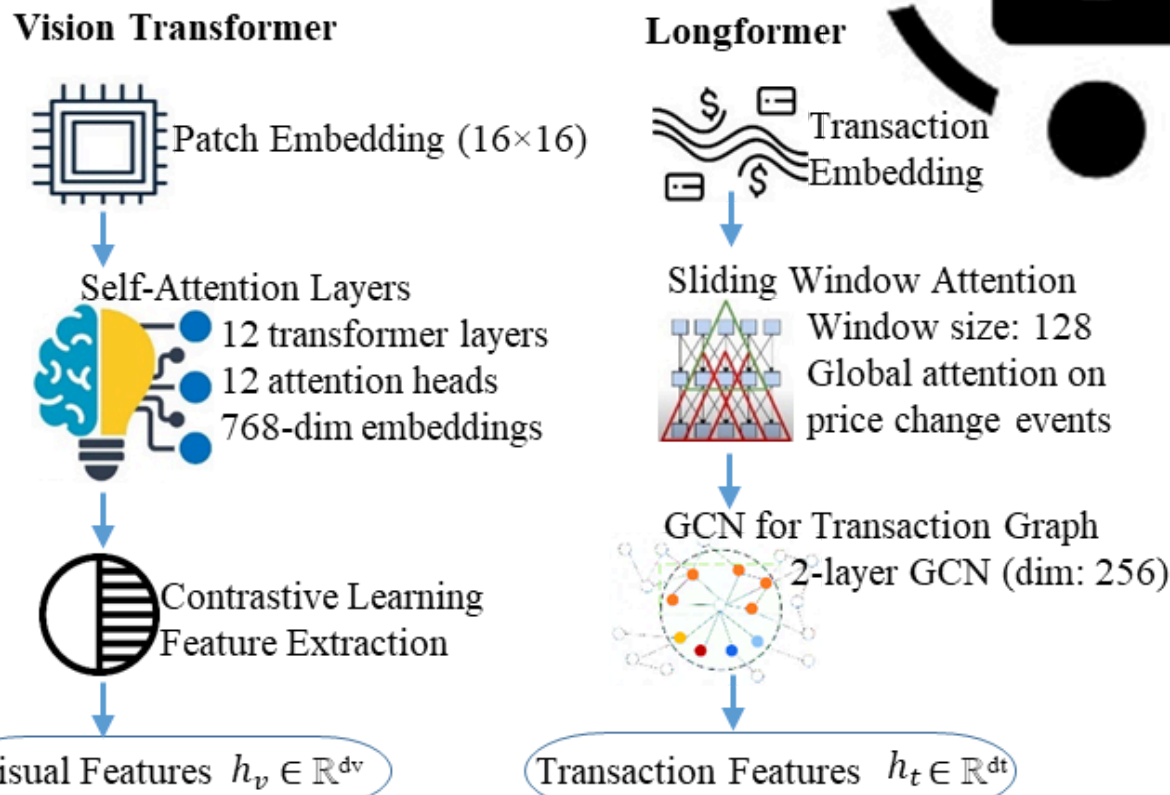


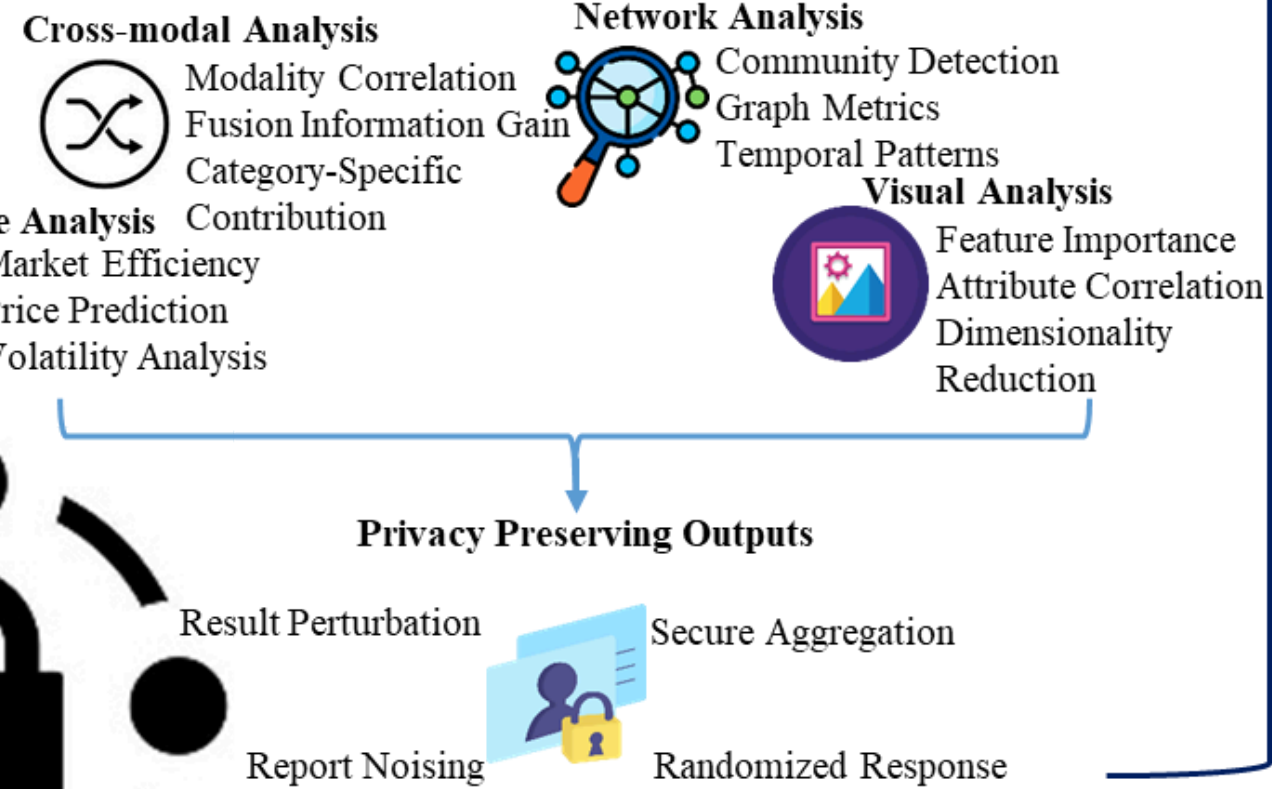
### (a) Privacy-aware Data Preprocessing



### (B) Modality-specific Encoders



### (D) Privacy-preserving Market Analysis



### (C) Bayesian Multimodal Fusion Mechanism

