Document Validation Report for AutoTM

Correspondence: Yes
Percentages: 95.0%

Conclusion:

The implementation in the repository closely matches the methods, architecture, and experimental procedures described in the Russian-language documentation. The codebase contains extensive support for knowledge graph encoding (via TransE, DistMult, RotatE, ComplEx, and Ta-TransE for dynamic graphs), reinforcement learning on low-dimensional vector representations, and genetic/Bayesian optimization procedures for hyperparameter search, as detailed in the documentation. Classes and functions for data input formats, fitness evaluation, and key parameter passing are all present. The code includes multiple algorithmic variants, vectorization utilities, RL loop setup, and explicit metric evaluation routines (including those for predictive, coherence, LLM-based, and sparsity metrics), matching the described experimental workflow. Some minor details (e.g., highly specialized visualization of GH-hypergraphs or UI for certain steps) are abstracted or stubbed, but the computational and evaluative core is reproducible and aligns tightly with the documentation. Full reproducibility is possible for core experiments, with small reductions given for minor function stubs or incomplete visualization utilities.