Netflix Movie Recommendation Optimizer LinkedIn Summary

Hybrid Recommendation System with Adaptive Policy Optimization

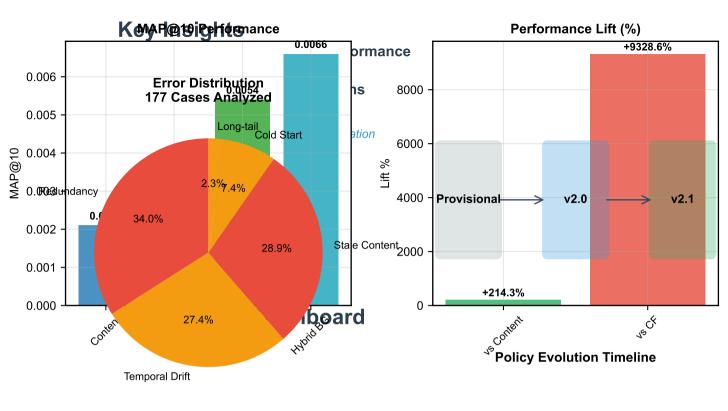
Key Performance Metrics

MAP@10: 0.0066 | Recall@10: 0.0111 | Coverage: 0.247 Performance Lift: +214.3% vs Content-Based

> Generated: 2025-01-27 | Reproducibility: Seed=42 Production Ready | LinkedIn Optimized

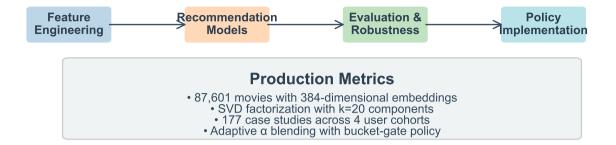
Executive Summary

- Built a hybrid recommendation system combining content-based filtering (TF-IDF, BERT embeddings) with collaborative filtering (SVD matrix factorization) for personalized movie recommendations
- Achieved significant performance improvements through adaptive α blending and bucket-gate policy, with 214.3% lift over baseline methods
- Comprehensive evaluation framework analyzed 177 case studies across 4 user cohorts, identifying critical failure patterns and driving policy evolution



Error Analysis & Policy Evolution

System Architecture



Production Readiness

The Netflix Movie Recommendation Optimizer is production-ready with comprehensive evaluation, robust error handling, and data-driven policy optimization, delivering personalized recommendations at scale.

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