

LTM's InterimOptimizer enables Automation of Interim Analysis Report Generation in Clinical Trials



LTM's InterimOptimizer automates interim analysis in clinical trials by leveraging Gen-AI to address data gaps, bias, and reporting inefficiencies. It enhances decision-making, streamlines report generation, and improves overall trial oversight with intelligent, scalable features.

Benefitted Personas

- Clinical researchers
- Regulatory teams
- Data managers
- Sponsors

Bottlenecks



Analytical Bias



Data Gaps



Integrity Risks



Interim Prevalence

Value Propositions



Accelerated Trial Intelligence



Smarter Clinical Oversight



Optimized Trial Workflow



Insight-Led Efficiency

Technologies optimized

- Azure OpenAI
- RAG Framework
- Python
- Vector database
- HTML
- CSS
- JavaScript

Strategic Interventions

Decoding data relationships:

Understand and analyze the relationships and interdependencies among various data elements to uncover valuable insights.

Synthetic data generation & trend analysis:

Generative AI enabled synthetic data generation and trend analysis for addressing the challenge of inadequate data and missing values in database.

Automated report summary generation:

Gen-AI enabled classification and summarization of demography, efficacy, safety data across different groups (Active/Placebo/ Comparator) and at different timepoints. Generate human-like downloadable text report.

Contextual chatbot for database queries:

Improves data quality and patient safety by enabling timely issue resolution and reducing protocol deviations through intelligent, proactive communication.