Unlock the Future of Healthcare & Life Sciences with Next Gen AI

Harness the transformative power of LLMs to accelerate innovation and create opportunities across the comprehensive Healthcare & Life Sciences value chain.

- **Key Challenges**
  - **Long Drug Discovery Lifecycle**: Takes a decade or more, costing $1B to $2B per therapy on average.
  - **Inefficient Clinical Trial Recruitment Efforts**: 85% fail to meet recruitment goals, jeopardizing data quality and timelines.
  - **Inconsistent and Manual MLR process**: On average, it takes 55 days for a document to progress through the MLR process.
  - **High rate of physician burnout**: 81% physicians report high or modest burnout due to administrative burdens.

- **Our Solution Offerings**
  - **LIFESCIENCES**
    - Next generation Genome sequencing and Analysis
    - Digital Animal-Free Testing for Pre-Clinical Development
    - Automated Clinical Trial Patient Recruitment
    - Adverse Event Detection for Pharmacovigilance Operations
    - Medical Legal Regulatory Review Automation
  - **PROVIDER**
    - Automated Clinical Note Summarization
    - Personalized Patient Outreach and Engagement
    - Workforce/Nurse Staffing Prediction and Management
    - AI Assisted Medical Imaging
    - Patient Fall Prediction in Hospitals
  - **PAYER**
    - Optimized Health Benefits/Plan Design
    - Automated Claims Processing
    - Prior Authorization Recommendation
    - Predictive Fraud Detection
    - Virtual Assistant for Personalized Member Engagement

Our solutions are built on NVIDIA AI Enterprise
LLM for RNA Sequencing

*A Flagship Pioneering Biotech Company*

Quantiphi developed a Deep Learning model using variational autoencoders for latent representations of RNA sequences, enabling comprehensive analysis and clustering by similarity, type, and organism.

--- Business Impact ---

- >98% Levenshtein similarity w/o compression
- >96% Levenshtein similarity after compression
- Prioritized RNA targets based on their relevance and potential impact on disease mechanisms

Digital Protocol Writer for Clinical Trials

*Fortune 500 global pharmaceutical company*

Quantiphi devised a Generative AI solution integrating Clinicaltrials.gov and PubMed data, using Semantic Search to expedite and enhance cardiology/ oncology study protocol authoring.

--- Business Impact ---

- Reduction in protocol development time by 40%
- Yearly $80M saving on amendments
- Approx. 40–50% reduction in operating cost for assimilating the clinical information

Overpaid Claims Detection and Processing

*Leading Healthcare Solutions and Analytics Company*

Quantiphi developed a solution to facilitate auditors in effortlessly identifying overpaid claims and proposing analogous claims to those currently under review. The solution encompasses constructing an end-to-end training pipeline, allowing the model to self-improve through auditor feedback, and implementing a recommendation engine for auditors.

--- Business Impact ---

- 25% of Claims were processed through the solution, reducing nurse’s review efforts
- Time and Resource Optimization

Bedside Shift Report (BSR) Generation

*US Based Leading Healthcare provider*

Quantiphi developed an LLM based solution for generating automated BSR (Bedside Shift Reports) that provides a consolidated clinical picture of a patient’s care, based on both non-discrete patient notes and discrete nursing documentation.

--- Business Impact ---

- Improves communication and comprehension among healthcare professionals
- Real-time report generation optimizing nursing efficiency

Get in touch with our experts to learn more.

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