

HelixDS

MLVPN: Private AI for Healthcare Data Intelligence

MLVPN is a secure, AI-powered data analysis platform designed specifically for the healthcare industry. It allows organizations to inject and analyze sensitive healthcare data including medical claims, clinical documentation, and EHR records entirely within their private infrastructure. No cloud required. No data ever leaves your control.

MLVPN gives providers, payers, and health tech innovators a powerful, compliant AI solution that can interpret and summarize large datasets using natural language queries.

Key Benefits for Healthcare Partners:

HIPAA-Compliant by Design

All AI interactions happen locally or in a Virtual Private Cloud (VPC) ensuring data privacy, regulatory compliance, and auditability.

Real-Time Analysis of Claims & Clinical Data

Upload structured or unstructured healthcare data and instantly get actionable insights trends, comorbidities, high-risk cohorts, utilization patterns, and more.

Natural Language AI Interface

Users can ask complex medical questions like: “What are the most common diagnoses following a CHF diagnosis in males over 60?” and receive accurate, source-cited answers.

Flexible Deployment

Works on-premises or in your private cloud. No external APIs. Fully containerized and ready for health systems, payers, or research environments.

Integrates with Your Existing Stack

Works alongside EHRs, claims systems, health data lakes, and internal dashboards. Easily extensible via API.

MLVPN Use Cases in Healthcare:

- **Payers:** Detect fraud, identify risk trends, and optimize coverage strategy
- **Providers:** Analyze patient populations, chart quality improvement goals, or summarize documentation
- **Health IT Vendors:** Add embedded AI capabilities to existing tools with zero data risk
- **Pharma & Research:** Securely explore real-world evidence, without third-party access

Why MLVPN Now?

With increasing pressure on healthcare organizations to unlock the value of their data while staying compliant and secure. MLVPN delivers a unique solution of the power of AI, on your terms.

Beyond Healthcare

While MLVPN is purpose-built for the healthcare sector, the same secure, private architecture is ideal for other sensitive data domains such as government records, academic research, and legal documents. These domains demand the same level of trust, data governance, and compliance. MLVPN delivers an intuitive, user-friendly experience backed by a zero-trust framework, enabling safe, private AI access to critical data in any industry.

The Challenge with Current AI Offerings

While AI capabilities are advancing rapidly, many current AI offerings rely on external or generalized datasets that may be outdated, inaccurate, or not aligned with the specific needs of the organization. This presents a critical challenge in healthcare, government, or research environments where data integrity is essential.

AI models are only as good as the data they access. If the source data is incomplete, inconsistent, or poorly maintained, the results can be misleading or even harmful. For AI to deliver trustworthy and actionable insights, it must be grounded in high-integrity, up-to-date, and domain-specific datasets.

MLVPN addresses this by operating directly on your organization's own data, within your infrastructure, ensuring that all queries, analyses, and insights are derived from the most accurate and current information available and never from questionable third-party data sources.

How MLVPN Addresses Key Use Cases in Healthcare

MLVPN is uniquely positioned to address high impact use cases across the healthcare ecosystem by enabling secure, natural language interaction with structured and unstructured data and all within your protected environment.

Payers: MLVPN allows payers to securely ingest and analyze claims, utilization history, and provider networks. Using natural language queries, teams can detect potential fraud patterns, identify shifts in risk trends across regions or populations, and run scenario-based analytics to optimize benefit design and coverage strategy and all without sending PHI to third-party platforms.

Providers: With MLVPN, providers can rapidly analyze patient population data to surface clinical trends, track progress toward quality metrics (e.g., HEDIS, STAR), and uncover care gaps. MLVPN also enables summarization of clinical documentation and visit notes, helping reduce administrative burden while maintaining full privacy compliance.

Health IT Vendors: MLVPN can be embedded or integrated with existing EHRs, population health tools, or analytics dashboards. Its flexible API and local deployment model enable vendors to offer AI-driven capabilities such as intelligent document search or cohort analysis without taking on the compliance risk of data movement.



Pharma & Research: Researchers can deploy MLVPN to securely explore real-world evidence and large observational datasets, such as de-identified claims or clinical registries. MLVPN's ability to analyze natural language, study protocols, and structured data within a single interface unlocks new efficiencies in hypothesis generation, protocol optimization, and data exploration all without exposing proprietary or sensitive data to external systems.

Expanding to Government and Public Sector Use Cases

MLVPN's architecture also makes it an ideal fit for secure government data environments. With its ability to operate entirely within private infrastructure, MLVPN can be deployed to analyze sensitive public sector datasets including census data, regulatory filings, and public benefits programs without risk of data exposure.

Government agencies often handle large, complex datasets that must remain confidential due to legal, security, or other constraints. MLVPN enables these agencies to run advanced AI-powered analysis, identify trends, improve policy outcomes, and automate document review all while ensuring complete control over their data.

This use case is particularly powerful for agencies managing multi-million record databases where performance, auditability, and compliance are critical.

MLVPN and the Legacy of Helix in CMS Quality Reporting

MLVPN is an offering of Helix Data Services, a company with deep roots in healthcare data and quality reporting. Helix participated as a Qualified Electronic Health Record (EHR) Direct Vendor for the 2013 CMS Physician Quality Reporting System (PQRS) and Electronic Prescribing (eRx) Incentive Programs.

As part of this program, CMS vetted and qualified EHR Direct vendors that demonstrated the ability to capture and submit the required data elements for the 51 PQRS EHR quality measures. Helix's EHR systems were validated and approved to securely report these clinical quality measures directly to CMS, ensuring accuracy, integrity, and alignment with federal healthcare quality initiatives.

Helix was also involved in initiatives tied to the Medicare EHR Incentive Pilot and eRx reporting, helping eligible professionals submit complete and compliant quality data through certified electronic workflows. This early involvement with national healthcare data programs underscores Helix's long-standing commitment to data integrity, compliance, and performance-driven analytics and principles that continue in the design and purpose of MLVPN today.

More information on the original PQRS EHR Measures and CMS program specifications can be found at:

<http://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/PQRS/>

Helix Contact & Product Information

Company Name: Helix Data Services

Products:

- HelixIS v2.0
- MedLink iSuite v4.0