PulseIQ

AI-Powered Hospital Performance Intelligence Platform

- Transforming hospital KPIs into actionable insights for leadership teams

- Combining real-time analytics, AI automation, and unified decision support

Healthcare Leadership Challenge

- Disparate KPI reporting across hospitals and departments slows response times

- Manual dashboards miss emerging clinical, operational, and financial risks

- Leaders lack a single source of truth for staffing, supply chain, and patient flow

PulseIQ Solution

- Unified web platform delivering role-based dashboards for admins, directors, and managers

- Embedded AI anomaly detection, predictive insights, and prescriptive recommendations

- Configurable experience with feature flags, auto-login demo mode, and rapid deployment

Product Highlights

- Executive dashboards covering workforce, operational, financial, and clinical KPIs

- Drag-and-drop module layout, sortable widgets, and immersive data visualizations

- Integrated alerting, toast notifications, and interactive modals for fast action

- Extensive mock datasets for demos plus API-ready architecture for production

AI & Automation

- Clinical Decision Support: patient risk stratification, drug interaction alerts, care pathways

- Workforce Intelligence: burnout risk monitoring, staffing optimization, skill gap mapping

- Supply Chain & Financial AI: stockout prevention, ROI modeling, denial risk mitigation

- Federated Learning Simulator & ML Gateway health to showcase advanced analytics

Technology Architecture

- Frontend: Next.js 15 + React 19, TypeScript, Tailwind UI, Zustand state management

- Backend: Spring Boot 3.2, MongoDB, JWT security, modular service layer

- APIs documented via SpringDoc OpenAPI, ready for secure integrations

- Docker Compose for local orchestration; extensible for cloud-native deployment

Configuration & Extensibility

- Centralized JSON config controls authentication, feature flags, UI modules, and API base URLs

- Config service delivers type-safe access with runtime overrides for environments

- Auto-auth demo mode accelerates sales conversations without sign-in friction

- Modular services and DTOs simplify connecting to EHR, ERP, and analytics pipelines

Market Opportunity

- $20B+ global market for hospital performance management and AI operations platforms

- Hospitals mandate actionable intelligence to improve margins under value-based care

- PulseIQ positions partners to deliver rapid ROI with minimal IT lift

Go-To-Market & Business Model

- Target buyers: health system executives, innovation leads, and consulting partners

- SaaS subscription with tiered seats + AI module add-ons and implementation services

- Channel strategy: strategic partnerships, co-branded demos, and data modernization bundles

Roadmap & Call to Action

- Pilot deployments integrating live hospital data feeds and workforce systems

- Expand AI models with real-world telemetry, benchmarking, and prescriptive automation

- Request a tailored demo or explore partnership opportunities with CodeSurge AI