



Rapid Product Development

Service Overview

Description

In regulated industries such as pharma, biotech, and healthtech, speed is only valuable if it comes with precision, compliance, and scalability.

Our Rapid Product Development service turns complex, high-stakes concepts into working, production-grade software in weeks or months, not years. We have delivered real-time analytics platforms, AI assistants, pricing calculators, and custom data tools that move from discovery to deployment on aggressive timelines while meeting strict security, regulatory, and performance requirements. Every build is guided by real-world data validation, user feedback loops, and compliance checkpoints from the start.

The challenge we solve:

- New product ideas stalling due to unclear requirements or slow delivery
- Missed opportunities caused by long development cycles
- Solutions that fail to meet compliance requirements when launched
- Wasted budget on features with low adoption or limited impact

Value Proposition

- Industry-specific knowledge allows us to quickly understand complex requirements and deliver without lengthy onboarding
- Proven track record of delivering usable products in life sciences environments
- Compliance and security built in from the first development sprint
- Early prototypes validated with real or simulated data to ensure product fit

Benefits

- Faster time to decision on go or no-go for major investments
- Higher adoption rates through continuous user involvement
- Reduced operational risk by automating manual and fragmented workflows

Methodology & Delivery Approach

We apply an agile, feedback-driven delivery model tailored for data-intensive, regulated environments. Our process is transparent, modular, and structured around fast iteration and validation with real stakeholders and representative data.

Delivery Phases

- **Discovery & Scoping** – Collaborate with business and technical stakeholders to define objectives, compliance needs, and integration points.
- **Prioritization & Planning** – Use impact-effort mapping to define the MVP and delivery milestones aligned with business and regulatory checkpoints.
- **Prototyping & Modular Build** – Develop reusable, component-driven features and connect to internal/external data sources via scalable APIs or pipelines.
- **Validation & Compliance Review** – Test using live or representative data, implement audit trails, and validate access controls/documentation readiness.
- **Feedback & Iteration** – Incorporate user and stakeholder input into agile sprint updates; refine UX, workflows, and functionality in short cycles.
- **Deployment & Support** – Launch in phases with SLAs, technical documentation, and options for continuous support or feature enhancement.

Communication & Collaboration

- **Onboarding Workshop** – Product discovery kickoff session to align on scope, data flows, and regulatory requirements.
- **Sprint Loops & Previews** – Weekly sprint reviews, async tracking, and shared design previews with business and technical leads.
- **Single Point of Contact** – One consistent technical or product lead managing delivery and client comms from start to finish.

Project Execution

- **Milestone Roadmap** – Feature prioritization → MVP delivery → Feedback integration → Final deployment
- **Live Reporting** – Weekly summaries and real-time status boards embedded into your preferred tools (Notion, Jira, Confluence, etc.)
- **SLAs & Post-Launch** – Clear commitments for go-live, bug fixes, updates, and ongoing optimization based on real-world use, continuous delivery support.

Technology Stack & Tools

Frontend: React, TypeScript, Next.js, Figma

Backend: Python, Node.js, Django, NestJS

Cloud: Azure, AWS, Kubernetes, Terraform, GitLab CI/CD

Data and AI: LangChain, LangGraph, Azure AI Search, SQLAlchemy, Apache Airflow, Azure Data Factory, OpenAI API (Azure), LangSmith, vector search and RAG pipelines, custom SQL views

Team Competences & Qualifications

Expertise:

- Full-stack engineering for regulated healthcare and life sciences software
- Product strategy and UX design for data-heavy applications
- AI and machine learning integration for automation, search, and analytics
- Data engineering for high-volume, multi-source environments

Project Experience:

- Real-time market access analytics platform with unified schema and automated ETL
- Advanced search and filtering across countries, therapy areas, and regulatory outcomes
- Interactive Treatment Cost Viewer for pricing comparisons and scenario analysis
- PICO Simulator prototype for evidence and scenario planning
- Domain-specific AI assistant for natural language insights
- Production-grade SQL agent for converting questions to accurate SQL across 250+ fields
- AI-powered PDF parsing agent for FDA posology to structured data
- Pharmaceutical Pricing Calculator web application with best-price optimization
- 50 custom pricing crawlers and data pipelines for continuous market updates
- Role-based dashboards and analytics for business users

Case Study Highlight

Client: Confidential – Global CRO

Challenge:

Needed to automate treatment cost analysis across US, Canada, and EU by replacing slow, error-prone Excel workflows while staying compliant.

Solution Delivered:

- Delivered an MVP pricing calculator with configurable scenarios, wastage toggles, and best-price package optimization
- Built 50 custom crawlers to keep market prices up to date
- Added an AI agent to parse FDA dosage PDFs into structured data
- Provided exports to CSV, Excel, and PDF with clear audit trails

Business Impact:

- Reduced scenario calculation time from hours to under 5 minutes
- Matched legacy Excel model accuracy in validation
- Enabled rapid pricing and reimbursement planning across markets

ROI

By focusing on early validation, modular builds, and embedded compliance, our rapid product development projects reduce time-to-MVP by up to 60 percent compared to traditional models. In the treatment cost analysis project, the client replaced a fragile, single-expert spreadsheet with an automated, auditable platform in under six months. This resulted in immediate time savings, higher adoption, and greater decision-making speed across multiple teams. For your organization, this means a faster path from concept to impact while keeping development costs competitive at €30–60 per hour, maximizing the return on every sprint.