



DAYHOFF TECHNOLOGIES

Redefining and Optimizing Legacy Systems
in the Bioinformatics Industry

Dayhoff Technologies is a SaaS platform operating at the intersection of bioinformatics and modernizing institutional applications.

Dayhoff Technologies leverages proprietary cloud computing and machine learning technology to provide sequence processing and reporting at unprecedented speeds and levels of critical detail.

www.dayhoff.ai

The Client

Pioneering the latest paradigm in bioinformatics, an industry expected to grow to \$24B by 2025, **Dayhoff Technologies** software suite boasts processing speeds, transparency and ease-of-use which are unparalleled in the industry.

Working seamlessly in the bioinformatics B2B cycle, The Dayhoff suite is complete with a UX-focused GUI and real-time environments, including sandbox environments for educational and demo purposes, enabling endless potential applications and scalability in other verticals.

The Problem



Consequences

The setup and calibration of sequencing pipelines requires specialized coding experience, making implementation and training for pipeline design and execution time-consuming and prone to human error.



Hesitations

Workflow in the biometrics industry is traditionally opaque - black box solutions for physical tests, lab testing, and sequencing offer no flexibility or insight as to status or timelines

The Solution

The team at Proteus Development partnered with industry experts to modernize the lifecycle of bioinformatics analysis along the following vectors:

- Automated deployment and customization of pipelines and analysis environments
- Designing bespoke cloud-based infrastructure for sample analysis
- Active market discovery to systematically re-design existing methodologies, improving product on a rolling basis and maintaining competitive edge

The Benefits

- Developed in-house microbiome analysis in up to 9 variable regions, operating at industry-defying speeds (30-45mins with detailed reporting, versus the industry average of 6 weeks with “black-box” reporting)
- Exceeds industry standard reporting and disease associations for further study
- Specialized pipelines including COVID19 variant detection (1-3 mins), and fully customizable bespoke pipeline analysis
- Pending ISO 27001, HIPPA, GDPR, and SOC Compliance

Proteus Development specializes in building from concept to market with a focus on future-proofing and scalability.

Our high-touch and boutique approach to software engineering and business development is critical to the market discovery, regulatory body compliance, and development of cutting-edge, industry-leading solutions that are key to Dayhoff’s current and future success in the field of bioinformatics analysis and education.