Case Study

The Excelra Approach

The Gene Visualization Tool

The Purpose
To develop a user-friendly genomic data visualization tool with an ability to explore, interrogate, analyze, interpret and evolve a hypothesis in discovery programs for expert geneticists and discovery scientists.

About the Client

INDUSTRY
Pharmaceutical and Biotechnology

LOCATION
US

SECTOR
Consumer Healthcare

The Excelra Approach

The Gene Visualization Tool was designed to provide a solution that can display various visualizations of Genome Wide Association Study (GWAS) results that are already stored in Data Lake databases, based on user choices (such as disease and/or gene of interest).
Excelra’s Contribution

- The application was scalable for 1000 users at a time.
- The application managed compliance requirements and provide access controls based on end user role.
- Graphing Framework (D3.js.) in the front-end services
- The visualization framework was scalable to all R&D related visualisation, like Genome browser, RNA-sequencing, SNP visualizations.

Excelra’s Technology Service Portfolio

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<th>Enterprise Data Strategy</th>
<th>Enterprise Cloud Ops</th>
<th>Enterprise Digital Transformation</th>
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<td>Metadata &amp; Master data management</td>
<td>Cloud migration, Infrastructure set up and management (AWS &amp; Azure)</td>
<td>Scientific product development</td>
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<td>Semantic data catalogue, Ontology mapping and Data dictionary integration</td>
<td>DevOps &amp; DevSecOps/ MLOps &amp; MLSecOps</td>
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<td>Visualisation and Dashboarding as a service</td>
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For more information, visit https://www.excelra.com/technology

About Excelra
Excelra’s data and analytics solutions empower innovation in life sciences across the value chain from discovery to market. The Excelra Edge comes from a seamless amalgamation of proprietary curated data assets, deep domain expertise and data science. The company’s multifaceted teams harmonize and analyze large volumes of disparate unstructured data using cutting-edge technologies. We galvanize data-driven decisions to unlock operational efficiencies to accelerate drug discovery and development. Over the past 18 years, Excelra has been the preferred data and analytics partner to over 150 global clients including 15 of the top 20 large Pharma.

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