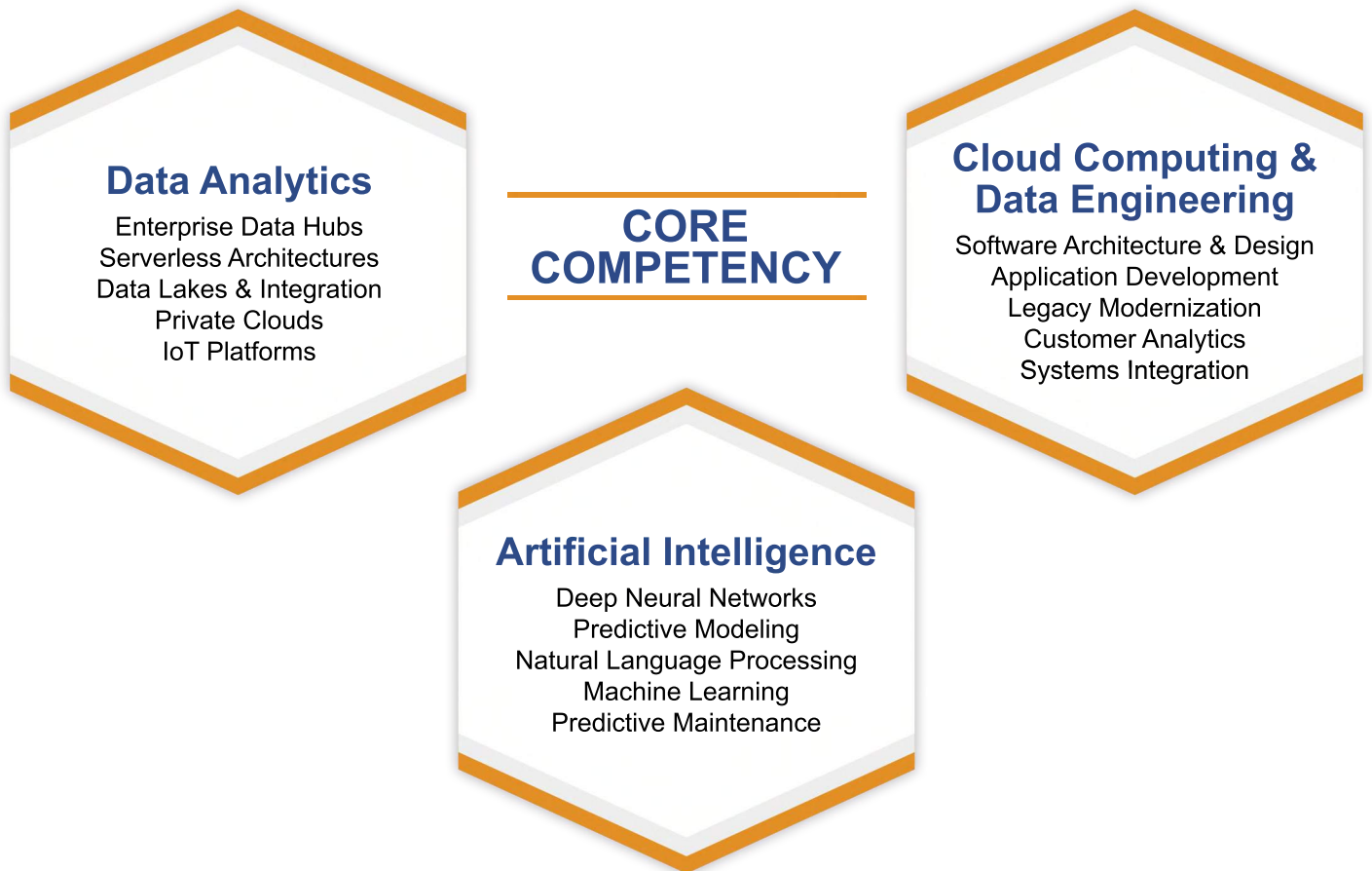


Company Overview

BigR.io is a leading technology consulting firm empowering data to drive innovation and digital transformation. We specialize in the development of forward looking software solutions using artificial intelligence, data engineering, data analytics, machine learning, cloud computing and data visualization.

We are an elite group with team members having MIT roots, Harvard & Yale Graduates, having expertise across industries while specialising in health care domain and shining when tasked with complex missions. Whether it's assembling mounds of data from a variety of sources, surfacing intelligence with Deep Learning, or building high-volume, highly-available systems we consistently deliver effective results.



Key Clients



Staffing Services

BigR.io is one of the leading staffing services firm, with a rich experience of decades behind it. Through our innovative technology and efficient team, our proprietary tools are built to search smarter and quicker, matching the best applicant to the right job. We have been servicing clients across Manufacturing, Pharma & Healthcare, Financial Services, FMCG and Ecommerce players among many.



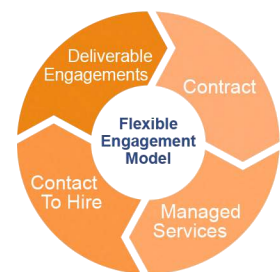
The business is a Tier1, women owned certified diverse supplier. It has been also awarded 'Supplier of the Year' by the New York New Jersey Minority Supplier Development Council (NYNJMSDC) and Diversity Alliance for Science (DA4S).

- ▶ Domain consulting especially around Healthcare, Manufacturing, Financial Services, Automotive, e-commerce & online retailers.
- ▶ Deep niche expertise in IT, Clinical, Engineering, Professional staffing.
- ▶ Specialised staffing in Big Data consulting, Data Analysts, AI/ML Engineers, Data Visualization, Data Base Administrators and Data Scientists.
- ▶ Areas of IT and Software expertise include: Full Stack Developers, QA and SDETs, Architects, Product Managers, UI/UX Designers, Cloud Engineers, Cybersecurity and Digital Marketing.
- ▶ Professional category including Agile POD Teams and Squads, Program & Project Managers, Scrum Masters & Business Analysts.
- ▶ Specialists in Cloud Engineering, Hybrid cloud computing, AWS, Azure and GCP Engineers.
- ▶ Expert consulting in Mobile and Web development & maintenance, Mobile Test Automation, Mobile security.

Business Model

Our specialization lies in the complete control on planning and optimising of talent in every employment engagement

- ▶ Dedicated team to service each Client Account
- ▶ On Demand Staffing Capabilities
- ▶ Consistent Quality Process
- ▶ Fortune 500 Standard Employee Benefits
- ▶ Flexible Client Engagement Model



Competency Matrix

- ▶ 24x7 delivery capabilities
- ▶ Experience of working in MSP model with PRO Unlimited Agile 1, Pontoon & TAPFIN
- ▶ Proprietary database of more than 250,000 qualified IT consultants
- ▶ Compliance Regulatory and Audits – 100% results across all clients.

Pandemic Response Platform with Analytics and Predictive Modeling

Johns Hopkins' COVID-19 public facing and tracking website utilizes best-in-class software engineering, data mining, aggregation and descriptive analytics to show up to the minute data on cases in the 2019 COVID-19 pandemic.

Building on this robust data foundation, BigR.io's proprietary pandemic response platform is built in collaboration with the data science team that oversees Johns Hopkins own machine learning and deep learning capabilities.

The platform has three primary modules:

1. Predictive Modeling
2. Resource Utilization and Logistics
3. Prescriptive Modeling



Predictive Modeling

- ▶ Built upon the Reed-Frost model of Pandemic trajectory and Criticality, a model first developed at the John Hopkins School of Public Health, this package models out - for any healthcare organization in any county in the United States - the number of cases, peak, and deaths associated with the pandemic or epidemic.
- ▶ The model simulates high, medium, and low likelihood scenarios according to data specific to the organization's geographic and regulatory setting.
- ▶ This predictive model utilizes social determinants, claims history, EMR/clinical data, and pharma data to model out a robust patient-centric view.
- ▶ In addition, macroeconomic factors including unemployment, wage index, social distancing preparedness and adherence, and population density are critical input features to the model
- ▶ This is a considerable step beyond most other models that have not been updated to reflect the remarkable circumstances of the current American social climate.



Resource Utilization and Logistics

- ▶ One of the most terrifying factors of this pandemic is the very real threat of running out of equipment for the patients – and providers who need it most, and this module puts organizations a step ahead.
- ▶ A crucial output of pandemic prediction for most healthcare organizations is resource planning and pandemic preparedness.
- ▶ The COVID-19 pandemic has proven that the US is susceptible to acute bed, ICU, PPE, staff, and equipment shortages
- ▶ A particularly useful feature of the model is that, based on the predictive module, (above) we assess a hospital's or organization's current and future resource needs, from ER physicians and nurses to ICU beds and invasive ventilators.



Prescriptive Modeling

- ▶ This module moves beyond simple prediction into prescription, or helping healthcare clients understand what the information means for them – and what to do about it.
- ▶ In the prescriptive module, our internal research and development team incorporates evidence-based clinical pathways as they become available into the modeling, so that the best of clinical knowledge and praxis is always reflected in the recommendations.
- ▶ A trained neural network assesses patient profiles against the larger macroeconomic setting of the healthcare industry, and then recommends clinical pathways on a patient-specific basis.

Solutions

BigR.io provides strategic solutions for a variety of verticals. Some of our key solutions areas include:



Predictive Maintenance

High equipment reliability is critical to the productivity and profitability of manufacturing companies. Traditional run-to-failure maintenance management is known to be vastly suboptimal because unscheduled downtime translates into high labor & maintenance costs and opportunity cost due to the idle time. While preventative maintenance circumvents disruptions to operations, it incurs unnecessary cost by discarding many parts still in good working condition. Our predictive maintenance policy takes into account the current condition of the mechanical components and schedules repair or replacement based on forecasted Remaining Useful Life (RUL).



Customer Analytics

Modern commerce is predominantly conducted via digital channels, allowing clients to collect unprecedented amounts of data on their customers. Advanced analytics techniques turn this data into insights that help businesses serve individual customers better and win more sales.



Customer 360-Degree View

This yields a complete profile by incorporating all available information from internal repositories, email, voice records, or social networks. Such a detailed understanding translates into a superior customer experience, improved campaign effectiveness, boosted sales and better retention.



Natural Language Processing

NLP is a field of Machine Learning that focuses on processing text written in human languages. Specifically, NLP algorithms enable machines to understand and process human language and documents. The main challenge in modern NLP is deciphering meaning (Natural Language Understanding — NLU) and figuring out what the machine should “say” back (Natural Language Generation — NLG). Both require machines to learn the ambiguities of human languages and need to be trained to handle new tasks and express concepts. NLU and NLG play major roles in the creation of intelligent Chatbots with human-like conversational capabilities.



IoT

The Internet of Things (IoT) is a major driver of new data needs with tens of billions of connected devices today and growing rapidly. Some of these devices can generate data at a staggering rate. Mobile and networked devices have not only become a significant driver of modern Big Data technologies but are driving evermore innovative and scalable approaches to data management and analytics. Techniques such as stream processing and edge-based filtering and analytics become even more relevant, and tough decisions about ingest and retention policies need to be made.