CANA Healthcare Analytics Services

Our Healthcare Analytics team works with healthcare providers to create tailored solutions to their toughest problems. We bring a strong tradition of working in high-trust, high-impact environments.

Our approach is to look at data and processes from the both the patient and clinician point of view. We have focused on backend services such as billing and quality metrics from financial data and hospital services, and our core skill is turning large, poorly structured/unstructured datasets into insights that physician or patients can consume for better hospital performance and maximized patient outcomes. We turn data into action.

Our Service Area Applications

- **Clinical Informatics** - Test, plan and evaluation, billing and workload studies. Making informed tradeoffs between sensitivity and specificity in clinical settings and developing forecast models. Our statisticians have taught at the Graduate Level with focus areas in applied probability and use both frequentist and Bayesian approaches.

- **Operations Research** - Includes mathematical optimization, forecasting, decision theory and modeling of dynamic systems. We use these tools to develop and implement patient demand forecasts synchronized to hospital resources.

- **Large Scale Simulation Modeling** - Develop population health models allowing our clients to experiment with changing population health dynamics and their impact on local staffing and resources.

- **Supply Chain Management Applications** - Understanding the tradeoffs between items on-hand and remotely stored, demand forecasting, optimal storage solutions, and medical device lifecycle management.

- **Machine Learning and Micro Services** - Rapid development and deployment of machine learning models. Integrating sensor data from hospital or telemedicine applications into machine learning models. We employ Apache Spark and Amazon Web Services (AWS) developers.

About CANA Advisors

CANA Advisors is a small business based in Northern Virginia. Our team of diverse professionals provides niched analytics services to a broad selection of clients, both large and small. Data is the currency of this century and an organization’s ability to identify, organize, and use its data defines its success.