REAL-TIME ANALYTICS FOR HEALTHCARE

The healthcare industry is experiencing a new wave, with the focus being primarily on improving clinical efficiency, quality of care and affordability. Apart from traditional healthcare information management systems, data is now also available from various sources like unstructured text documents, medical devices, and wearable; thus, culminating into a new age healthcare analytics.
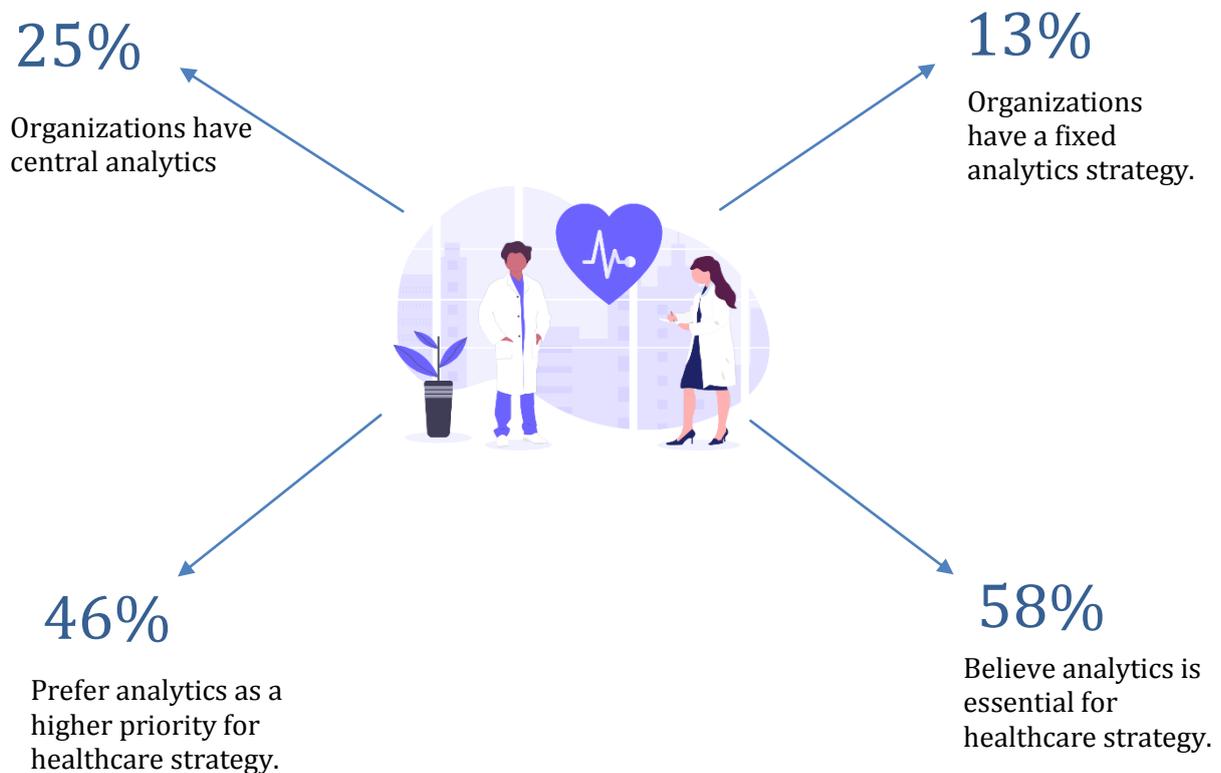
It is obvious to say that new age healthcare industry is dominated by IOT, predictive analysis and machine learning. IOT enabled devices like fitness bands, blood pressure and heart rate monitoring cuffs, glucometers, etc. are now being used to provide personalized healthcare. Healthcare institutions are leveraging predictive analysis to refine services like patient care, hospital administration, chronic disease management, etc.

Summarizing Data Analytics Scenario in Healthcare

According to recent report by Oracle, there is about 50 petabytes of data in healthcare sector, expected to increase to 25K petabytes by 2025. The United States alone products about 1.2 billion clinical documents every year, implying a vast ocean of data to work upon.

Healthcare organizations are now unleashing the potential of these humongous data to gain insights and improvise their efficiency. According to a recent report, global data analytics market in healthcare is increasing at a compound annual growth rate of 17.7% towards 2026, exceeding 45K Million US dollars.

The illustration below summarizes the current state of healthcare analytics (according to a recent report by GE Healthcare).

25%
Organizations have central analytics

13%
Organizations have a fixed analytics strategy.

46%
Prefer analytics as a higher priority for healthcare strategy.

58%
Believe analytics is essential for healthcare strategy.

How BIRD Supports Healthcare Analytics

BIRD provides the much-required powerful full stack data management and augmented business intelligence solution. Users can now easily model, analyze and visualize a vast amount of data coming from limitless sources, and instantly get the answers needed to make smart and quick business decisions. BIRD provides required alerts on key performance indicators such as re-admission rates, reimbursement times, claims, frauds, etc.

Optimize Operations

• Amend the patient to staff ratio to provide better patient care, promote patient safety and improve efficiency

• Monitor and upgrade response times for emergency cares and/or intensive care units.

• Troubleshoot discharging process to improve and accelerate the same

Fraud Detection

• Gauge through patient files and bills to detect possible anomalies such as overutilization of resources in short time periods.

• Identify twinned prescriptions for the same patient in different locations.

• Get real time alerts to investigate before payment is made.

Reduce Re-admissions

• Find reasons behind high re-admission rates by analyzing data using descriptive and predictive analysis.

• Identify high risk patients by analyzing their clinical, social, wearable, and/or historical data.

• Address these patients by providing proper hospital stay facility through coordination with care providers and doctors.

Meet Compliance Standards

• Monitor overall performance by comparing to peers in other areas.

• Compare standards through various hierarchies like divisions, regions, groups, and areas.

• Fetch number of facilities below eligibility criteria of compliance standards.

Key Benefits with BIRD

Eliminate Data Silos
Use our connectors to integrate your data at one place.

Self -Service
Avail real time analytics with advanced visualizations

Modern ELT
Use high performance and extensive data preparation features.

Predictive Insights
Use multiple ML models for forecasting, prediction, and text analytics.

Universal Data Model
Create single data model with multiple fact tables.

Big Data Architecture
Event driven architecture to ingest and process real time data.

Augmented Analytics through BIRD

Avail the benefits of combining machine learning and natural language generation to get automated search results on required insights from business data. Through its augmented analytics approach and models like linear regression, clustering, classification, forecasting, random forest, text analytics, density-based clustering, etc., BIRD provides the necessary findings for simplest queries.

BIRD comes with an in-built library of analytical functions and algorithms which would run in the background to analyze data and predict business outcomes. Leverage these predictions to simulate impacts of all decisions and alleviate any possible risks. Enable your business to transit from:

Reactive to Proactive	Post-mortem to Pre-emptive	Static to Dynamic

Get into Action from Insights

Leverage BIRD's automated insights to take relevant business actions by identifying growth opportunities and prevailing loopholes. BIRD uses artificial intelligence and machine learning techniques to transfer raw data into recommended actions. It delivers personalized in-context information and helps save time from analysis to action.

The powerful and collaborative on-the go storyboards ensure that the insights are displayed seamlessly, regardless of user location, and more importantly, on time to take key business decisions.

BIRD has been certified for the internationally recognized ISO 27001:2013 standards that endorse the company's commitment to high standards and security controls. We are also HIPAA and GDPR compliant and currently in the process of getting FedRAMP certification.

TRY BIRD TO REVEAL INSIGHTS ON YOUR OWN DATA, WITH A FREE POC NOW!

Contact: Kraig Alexander, Director of Business Development

kraig@birdanalytics.ai | 1-561-312-7372