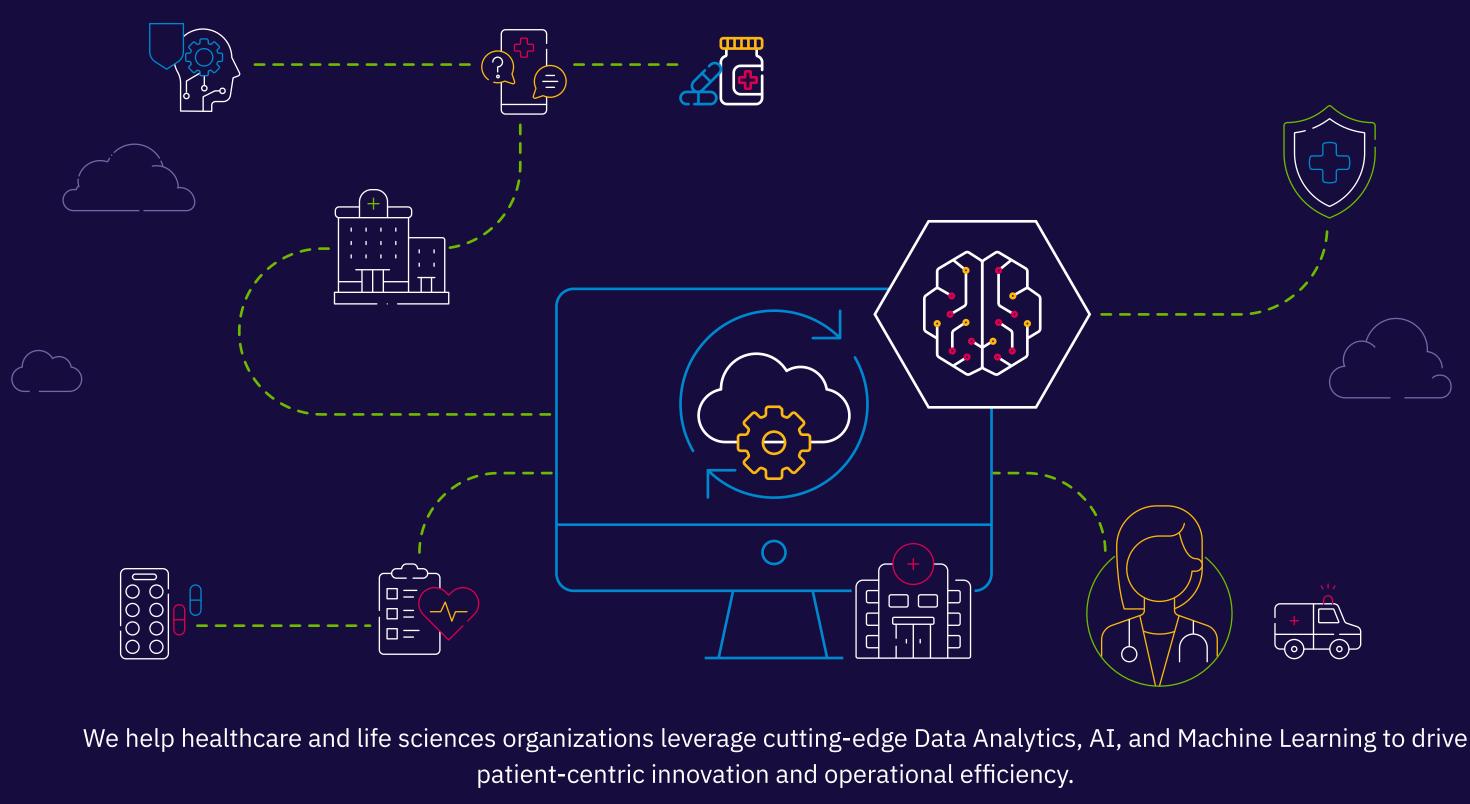




Where data meets innovation in healthcare



YOUR GOAL?



Enhance operational efficiency

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Automate clinical workflows

Unlock new research insights

THE DIGITAL HEALTHCARE REVOLUTION The healthcare sector is undergoing a rapid digital transformation. Here are key trends shaping the future:

AI-Powered Diagnostics • AI is enhancing medical imaging, reducing diagnostic errors by 30%

Machine learning models improve early disease detection



AI-driven genomics accelerates drug discovery • Personalized treatments improve patient care

Precision Medicine & Genomics



AI reduces administrative burdens by 40% NLP-driven automation enhances medical documentation

Secure & Compliant Data Sharing

Data quality frameworks for improving data quality Compliance with HIPAA, GDPR, and regulatory frameworks



• Real-time patient monitoring reduces hospital readmissions Edge AI enables faster data processing at the point of care

Real-time monitoring in Healthcare

- **Generative AI in Medical Research**
- Accelerates drug discovery and clinical trial matching Provide personalized healthcare and wellness for professionals



WHERE AI MEETS REAL-WORLD IMPACT

Identify at-risk patients

with AI-driven insights

before complications arise

Reduce hospital readmissions

THE SOLUTION?



Operational Efficiency in Hospitals

AI optimizes staff scheduling

Predictive maintenance for

and resource allocation

medical equipment

Mactores bridges the gap between

with tailored AI and data solutions.

technology and healthcare innovation

Predictive Analytics for Patient Care

AI-Powered Clinical Genomic Data Analysis Decision Support

TECHNOLOGY USE CASES >

THE BACKBONE OF INNOVATION

AI-Powered Data Lakes

with secure access controls

for Healthcare



Chatbots 24/7 virtual health assistants improve patient engagement

Intelligent Healthcare

and symptom checking

for clinicians

AI models detect billing



AI accelerates personalized medicine research

disease prevention

Secure Data Exchange in Clinical Trials

ensure regulatory compliance

Accelerate clinical research with

AI-powered data lakes

seamless data integration

Identify genetic markers for



Prevent insurance fraud with machine learning

anomalies

Faster, more accurate, and efficient healthcare services



Generative AI models predict drug efficacy Reduce R&D costs by

accelerating molecule

Drug Discovery &

Development

design

Outcome

Store and analyze structured & unstructured medical data **Cloud-Based AI for** Ensure HIPAA & GDPR compliance

Anomaly Detection in Healthcare Data • Identify irregularities in patient vitals and insurance

claims

Genomics Research

Accelerate precision

medicine initiatives

• Scalable genomic analysis using

AI-powered cloud platforms

billing and reimbursement

Prevent errors in medical

AI-Driven Supply Chain Optimization Predictive analytics for medical

inventory management

Reduce waste and optimize

Time Saved?

procurement



Data Modernization & Cloud Transformation Secure modernization of legacy

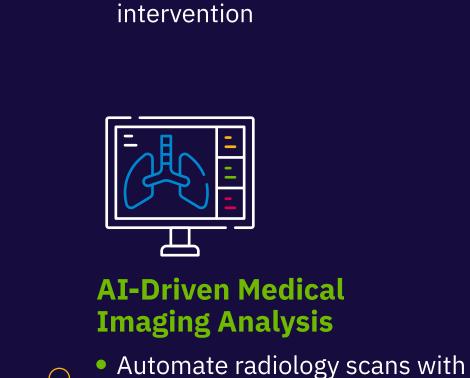
healthcare databases to the

cloudscale secure databasesapn

Zero downtime with AI-assisted

data transformation

DRIVING RESULTS, NOT JUST PROJECTS



accuracy

Real-Time Data Pipelines

Continuous monitoring for ICU

patients using IoT sensors

for Patient Monitoring

• AI-driven alerts for early

Natural Language Processing

deep learning models

• Improve cancer detection

(NLP) for Medical Records Automate EHR data extraction and summarization

Reduce physician burnout with

AI-assisted documentation



AI-Powered

errors.

Services

DevOps Pipelines

Cloud Optimization

Reduce cloud costs by

dynamically scaling resources

based on predictive analytics.

Automate your DevOps lifecycle

– from build to deployment –

improving speed and reducing

End-to-End Data Analytics Platforms Aggregate and analyze data across your software stack -

AI-Driven

Product Development

generation, bug fixing, and

with AI-assisted code

feature prioritization.

Automate product development

from user behavior to system performance.

Automated Database

Seamless database migration

Migration (GenAI)

from legacy to cloud

environments with zero

downtime. Generative AI

schema transformation.

ensures data integrity and

Data Platform Migration

Move entire platforms to the cloud with minimal disruption, thanks to AI-driven automation.





Generative AI for Design Automate UI/UX design and create personalized user experiences with AI-driven designs.

Custom Machine

Learning Models

Tailored AI models for fraud

detection, recommendation

engines, and predictive analytics.

up to 3x**Enhanced Decision-Making Speed** Implementing advanced analytics

and ML platforms which enabling

companies to respond swiftly to

market changes.

Accelerated Machine

Learning Development

A modular platform enables ML

teams to experiment supply

chain processes.



Performance with & Real-Time Analytics **Serverless Scalable** Modernizing to AWS facilitates **Architecture** integration with AI/ML services, data lakes, and real-time AWS-native services like Amazon analytics tools, enhancing data-driven decision-making



Seamless Integration

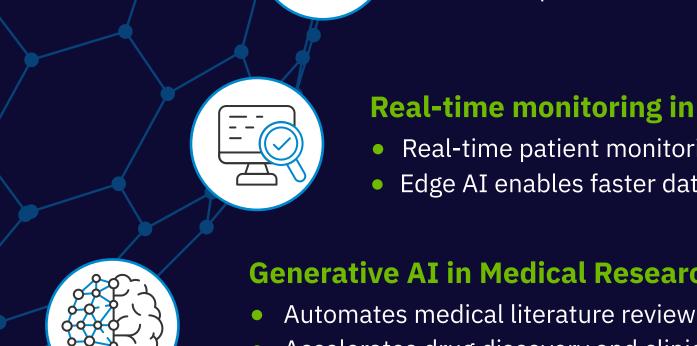
and operational efficiency.

Enhanced Security & Compliance

Redshift, Athena, and EMR enable high-performance data processing with on-demand scalability, improving analytics speed and user experience.

99.99% **Faster Time to Availability Market with** & Disaster Recovery with Automated Backups AWS provides a highly available and fault-tolerant architecture with automated backups, ensuring business continuity and compliance with industry regulations. and enabling faster insights.

Leveraging AWS security best practices, including encryption, IAM roles, and automated monitoring, ensures robust data protection and regulatory compliance.





and efficiency.



Reduce diagnostic errors and improve treatment planning

Real-time recommendations

Healthcare Fraud Detection

Automate appointment scheduling

MACTORES SOLUTIONS Now, Let's Build Together:

Months of manual work automated!

CASE STUDIES

EMDSERONO

Improved Agility



up to 70% **Cost Reduction Faster Query** in Infrastructure & Licensing Migrating from HP Vertica to AWS-native big data services eliminates expensive licensing costs and optimizes cloud-based resource utilization, significantly reducing overall operational expenses.

Automated Pipelines Mactores accelerates deployment through automated data ingestion, transformation, and analytics pipe-

lines, reducing development cycles

https://mactores.com