

# AI in Healthcare

Insights and Use Cases for Data Management



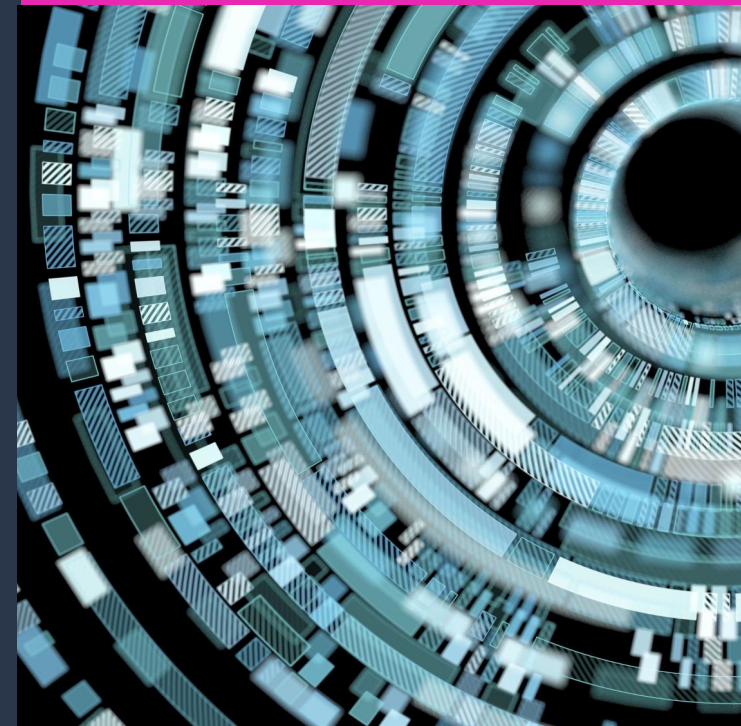
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C O N S U L T I N G

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# About me

- Owner and Founder of Think AI, a global Data and AI org working with Healthcare and Manufacturing clients. Our teams are in the US, Canada, the Philippines, and India.
- 30 Years and Data and AI Space
- Worked with Organizations like Microsoft, JNJ, and Starbucks to name a few
- Serial Entrepreneur and Angel Investor
- Cofounded a start-up with a product for Dyslexia called ReadON.AI
- Patents in the Neuroscience space
- Currently writing a book on Healthcare and AI



# Overview

- Why AI in Healthcare?
- Relevance of AI in Healthcare
- Applications of AI in Healthcare
- Benefits of AI in Healthcare
- Challenges and Considerations
- Conclusion



# Data Management Hurdles



Data Silos and Fragmentation



Data Privacy and Security



Data Volume and Velocity



Data Quality and Accuracy



Data Governance and Ethics



Data Retention and Disposal



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# Data Management Strategies



Interoperability and Data Standardization



Data Governance and Data Stewardship



Master Data Management



Data Quality Assurance and Validation



Privacy-Preserving Techniques



Data Security and Access Controls



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# Leveraging AI for Data Management



Data Cleansing and  
Preprocessing



Data Integration and  
Interoperability



Data Security and  
Privacy



Data Governance and  
Compliance



Data Analytics and  
Insights



Automated Reporting  
and Decision Support



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# Regulatory and Ethical Consideration

HIPAA Compliance  
and Data Privacy

General Data  
Protection  
Regulation (GDPR)  
Compliance

Bias and Fairness  
in Algorithm

Informed Consent  
and Patient  
Autonomy

Data Ownership  
and Intellectual  
Property

Data Retention  
and De-  
Identification



# AI Use Cases

- ❖ Medical Imaging Analysis
- ❖ Drug Discovery and Development
- ❖ Personalized Treatment Plan
- ❖ Predictive Analytics
- ❖ NLP / LLM in Healthcare
- ❖ Robotic-Assisted Surgery
- ❖ Virtual Health Assistants



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# AI Solutions for Data Management



AI-Powered Data  
Integration Platforms



Blockchain for Data  
Security and Integrity



NLP / LLM Tools



AI-Enhanced Data  
Quality Management



Federal Learning for  
Privacy-Preserving AI



Ai-Driven Predictive  
Analytics Platform



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# Maximizing Success with AI

Interdisciplinary Collaboration

Continuous Education and Training

Real world validation and Testing

Data Governance and Compliance

Human-Centric AI Integration

Scalability and Infrastructure Readiness

# Future Prospects and Opportunities

Precision  
Medicine  
Advancements

AI-Enabled Drug  
Discovery

AI-Powered  
Medical Imaging

Population  
Health  
Management

AI-Driven Virtual  
Assistants

AI and Robotic in  
Surgery

AI for Healthcare  
Workforce  
Support

QUESTIONS ?



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- <https://linkedin.com/davegoyal>
- [dave.goyal@thinkaicorp.com](mailto:dave.goyal@thinkaicorp.com)
- +1 (714) 331-8822

