

AI VISION FOR HEALTHCARE EXECUTIVES

Amsterdam - Netherlands
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GENTEX®
TRAINING CENTER



Introduction

Artificial Intelligence (AI) is revolutionizing the healthcare industry, transforming everything from diagnostics and treatment planning to patient engagement and hospital operations. For healthcare executives, understanding AI is no longer optional; it is essential. As decision-makers, executives must develop a vision for how AI can be used to improve care delivery, operational efficiency, and strategic growth. This course is designed to provide healthcare leaders with the tools and understanding needed to shape that vision with confidence and clarity. Participants will explore real-world use cases, emerging technologies, data governance frameworks, and leadership strategies for successful AI adoption. The course emphasizes practical insights tailored for healthcare settings, enabling executives to identify opportunities, manage risks, and guide their organizations through digital transformation.

AI Vision for Healthcare Executives Course Objectives:

- Comprehend key AI technologies and their practical applications in the healthcare sector
- Develop a strategic AI vision aligned with healthcare policy, ethics, and patient outcomes
- Evaluate AI-powered tools and innovations for clinical and operational use
- Understand the importance of data governance, compliance, and security in AI projects
- Lead AI initiatives across departments with a focus on people, change, and digital maturity
- Identify barriers to AI adoption and design frameworks for risk management and implementation
- Foster innovation cultures that prioritize ethical and patient-centered AI solutions

Course Methodology:



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This course combines expert-led presentations, real-life case studies, strategic workshops, group discussions, and interactive decision-making exercises tailored to healthcare executive environments.

Who Should Take This Course:

- Hospital Executive Directors and Deputy Directors
- Chief Medical Officers (CMOs)
- Directors of Clinical Innovation or Digital Transformation
- Chief Information Officers (CIOs) in healthcare organizations
- Healthcare Strategy and Operations Leaders
- Policy Makers and Regulatory Executives in healthcare
- Heads of Data Science or IT within healthcare institutions

AI Vision for Healthcare Executives Course Outlines:

Day 1: Foundations of AI in Healthcare

- Understanding AI, machine learning, and deep learning in simple terms
- The evolution of AI in healthcare settings
- Key drivers and challenges in digital healthcare transformation
- AI vs. traditional healthcare IT tools
- The impact of AI on the future of healthcare delivery

Day 2: Strategic AI Leadership for Executives

- Building a leadership mindset for AI adoption
- Setting an AI vision: aligning with organizational strategy



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- Integrating AI into clinical and non-clinical operations
- Developing AI literacy across leadership teams
- Prioritizing initiatives and managing expectations

Day 3: Data Governance and Ethical Considerations

- Data quality, privacy, and compliance in AI systems
- Understanding GDPR, HIPAA, and local health regulations
- Bias, fairness, and explainability in healthcare AI
- Building a governance framework for responsible AI
- Case examples of ethical AI use in hospitals

Day 4: AI Use Cases in Clinical Practice

- AI in radiology, pathology, cardiology, and emergency care
- Predictive analytics for early diagnosis and intervention
- AI-powered treatment planning and personalized medicine
- Clinical decision support systems (CDSS)
- AI's role in improving patient safety and clinical accuracy

Day 5: Operational AI and Process Optimization

- Automating administrative tasks: scheduling, billing, and documentation
- AI in resource planning and patient flow management
- Improving supply chain efficiency with AI tools
- Reducing hospital readmissions using predictive models
- Digital twin hospitals and smart infrastructure





Day 6: Patient-Centered AI Applications

- Enhancing patient experience with AI-driven platforms
- Virtual assistants and AI chatbots in care delivery
- Remote patient monitoring and telehealth AI systems
- AI in population health management
- Case studies: empowering patients through AI

Day 7: Building AI Capabilities Within Healthcare Teams

- Developing internal AI competencies
- Partnering with tech companies, startups, and universities
- Structuring an AI implementation team
- Managing change and resistance to AI adoption
- Upskilling clinical and non-clinical staff

Day 8: Innovation and AI Investment Strategy

- Evaluating the ROI of AI initiatives
- Strategic partnerships and vendor evaluations
- Innovation roadmaps: from pilot to scale
- Budgeting and funding AI programs
- Real-world success stories from healthcare institutions

Day 9: Risks, Challenges, and AI Project Management

- Identifying implementation risks and mitigation plans

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- Common AI project failures and what to learn from them
- Building resilience in AI systems
- Compliance audits and evaluation metrics
- Project lifecycle management in healthcare AI

Day 10: Future Trends and Executive Roundtable

- Generative AI and its impact on healthcare
- AI regulatory trends and government involvement
- The future of executive leadership in AI-driven hospitals
- Group workshop: designing a future-ready AI strategy
- Open discussion and knowledge exchange

Conclusion

By successfully completing the AI Vision for Healthcare Executives course with Gentex Training Center, participants will gain deep strategic insight into how Artificial Intelligence can be harnessed to transform their healthcare institutions. They will be empowered to lead digital innovation, align AI with organizational goals, and ensure responsible and impactful technology adoption across operations and patient care environments.

