

How ChatGPT can Transform Healthcare

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Overview: Generative AI technology in healthcare

This slide showcases introduction to generative artificial intelligence (AI) technology in healthcare, providing basic overview to users. It provides details about drug discovery, disease diagnosis, patient care, pandemic, chronic diseases, etc.



Generative AI or Generative Adversarial Networks (GANs) is artificial intelligence and machine learning capable of generating fresh content such as text, image and music

Key highlights

- **Generative AI has multifarious applications in healthcare, including:**
 - Drug discovery
 - Disease diagnosis
 - Patient care
- **Generative AI is increasingly developing with potential to transform healthcare in unimaginable ways**
- **Healthcare faces several challenges today which AI can happily address, these are:**
 - Pandemic
 - Chronic diseases
 - Mental health
 - Shortage of medical professionals
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Benefits of using generative AI in healthcare

This slide showcases introduction to generative artificial intelligence (AI) technology in healthcare, providing basic overview to users. It provides details about drug discovery, disease diagnosis, patient care, pandemic, chronic diseases, etc.

Improved efficiency and accuracy

- Processes complex amounts of medical data and extracts predictions, insights, etc. to make calculated decisions
 - Helps reduce human errors
 - Enhances efficiency of diagnostics and medical devices
 - Add text here

Personalized medicine

- Analyzes patient data, genetic info, history, lifestyle factors, etc. to extract personalized treatment plans
 - Improves patient outcomes
 - Reduces adverse health events
 - Add text here

Rapid image analysis

- Analyzes images such as MRIs, X-rays and CT scans in real time
 - Reduces patient waiting times
 - Fastens decision making process
 - Add text here

Predictive analytics

- Predicts disease progression, treatment responses, forthcoming causalities, etc.
 - Optimizes patient care
 - Reduces burden on healthcare systems
 - Add text here

Future of generative AI technology in healthcare

This slide showcases introduction to generative artificial intelligence (AI) technology in healthcare, providing basic overview to users. It provides details about drug discovery, disease diagnosis, patient care, pandemic, chronic diseases, etc.



Seamless integration

- Generative AI will become a crucial part of Medicare workflow as it will rapidly integrate with
 - Electronic health record (EHR) systems
 - Medical devices and diagnostic tools
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Remote patient monitoring

- Generative AI will analyze streams and patterns from data collected from medical wearables, enabling:
 - Early detection of health issues
 - Reducing hospitalizations
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Patient specific models

- AI and ML algorithms will be trained on more complex and dynamic datasets to create patient oriented models
- Potentially considers genetics, environmental factors, patient info, etc. to build personalized treatment plans



Ethical considerations

- Data privacy, algorithm bias and transparency will increase as generative AI is highly being adopted in healthcare
- Strict rules will be deployed to safeguard ethical and responsible usage of generative AI tools

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Statistics indicating adoption and growth of generative AI

This slide showcases statistics which can be referred by industrial experts and doctors which point towards growth and adoption of generative AI. It provides details about venture capital firms, ChatGPT, augmentation, etc.

01

Venture capital firms seeded **USD 1.7Bn** or more in generative AI, where

- AI medicine discovery
- Software development garnering, gathered greatest funding in 3 years

02

By 2025, generative AI methods will be utilized to build **>30%** newly sourced materials and pharmaceuticals
ChatGPT and other AI models are thriving towards this use case

03

98% of healthcare providers and **89%** of healthcare payer executives opine that advancements in generative AI are steering in a new era of institutional intelligence

04

40% of working hours in medicare could be optimized or augmented by language oriented AI

05

Half of healthcare organizations plan to use ChatGPT for learning purposes, more than half are planning to initiate from this year only

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Advantages for doctors and patients using ChatGPT

This slide showcases how ChatGPT revolutionary AI can benefit doctors and patients in improving their desired tasks. It provides details about efficiency, quality, accessibility, intelligence, professionals, innovation, collaboration, etc.

Enhancing efficiency, quality and accessibility of healthcare services

- GPT-4 automates documentation, diagnosis, prescription and referral tasks
- Ensures accuracy, consistency and completeness of data and information
- Safeguards patient safety and satisfaction and monitors their progress for best possible care
- Add text here

Augmenting the intelligence, creativity and empathy of healthcare professionals

- Helps doctors learn new skills, insights, ideas and problem solving methods
- Keeps doctors up to date with changing healthcare landscape by offering latest insights
- Generates hypotheses, solutions and approaches for doctors to tackle bigger problems
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Fostering innovation and collaboration in healthcare

- Empowers experts to discover new potentials, experiment with modern methods, etc.
- Fosters innovation and improves medical practice
- Synthesizes data from multiple sources and supports creation of new healthcare solutions
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