The Ethical Path to Artificial Intelligence (AI) Implementation in Senior Care Operations
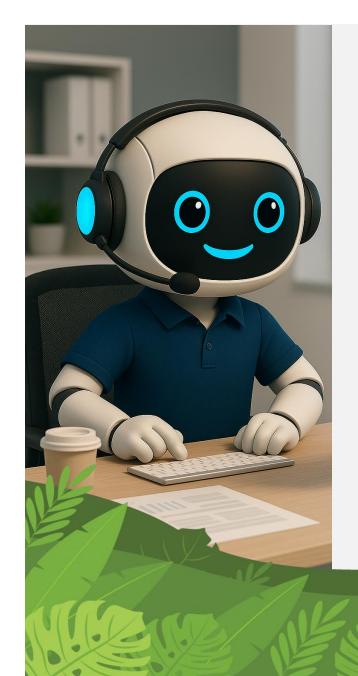
BC Care Providers Association
EngAgeBC

Land Acknowledgement

Disclosures

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Learning Objectives

- Discover how AI tools can help unlock efficiencies in how you plan personalized menus for diners, while maintaining a critical thinking lens that aligns with ethical standards.

- Learn how to navigate AI-fueled recommendations.

- Hear real-life stories of healthcare communities who are using AI ethically in their everyday operations.

It's an exciting time!

I'm a strong believer that innovative technology has a place in senior care. In fact, I would argue our industry is among those who need its benefits most.- Sean Rowe, CEO and President, Mealsuite

Overburdened healthcare workers are preoccupied with routine administrative duties that detract from direct patient [resident] care. AI holds immense promise in alleviating this stress on the healthcare system. - Dr. Waqaas Al-Siddiq Founder & CEO, Biotricity

The Importance of Ethical AI in Healthcare:

Arun Sankar
Exploring the IT Universe—One Technology at a Time

October 19, 2024

Ethical Issues of Artificial Intelligence (AI) in the Healthcare

June 2023 · Journal of Science Technology and Innovation Policy 9(1):32-37

DOI:10.11113/jostip.v9n1.129

Artificial intelligence in healthcare: past, present and future

Ethical-Legal Models of the Society Interactions with the Artificial Intelligence Technology

Dmitriy V. Bakhteev

Review on Artificial Intelligence and Applications in Healthcare

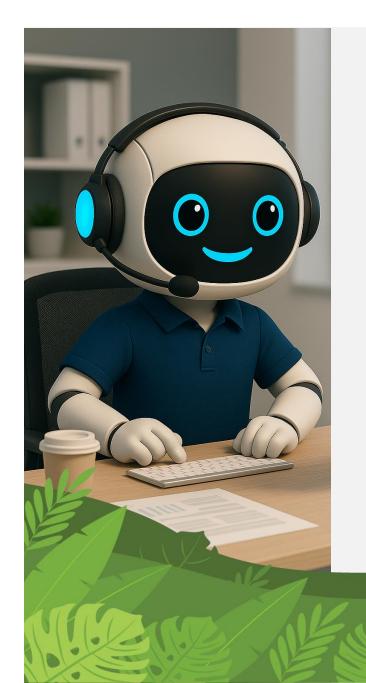Artificial Intelligence in Health Care: Current Applications and Issues

Transforming healthcare with AI

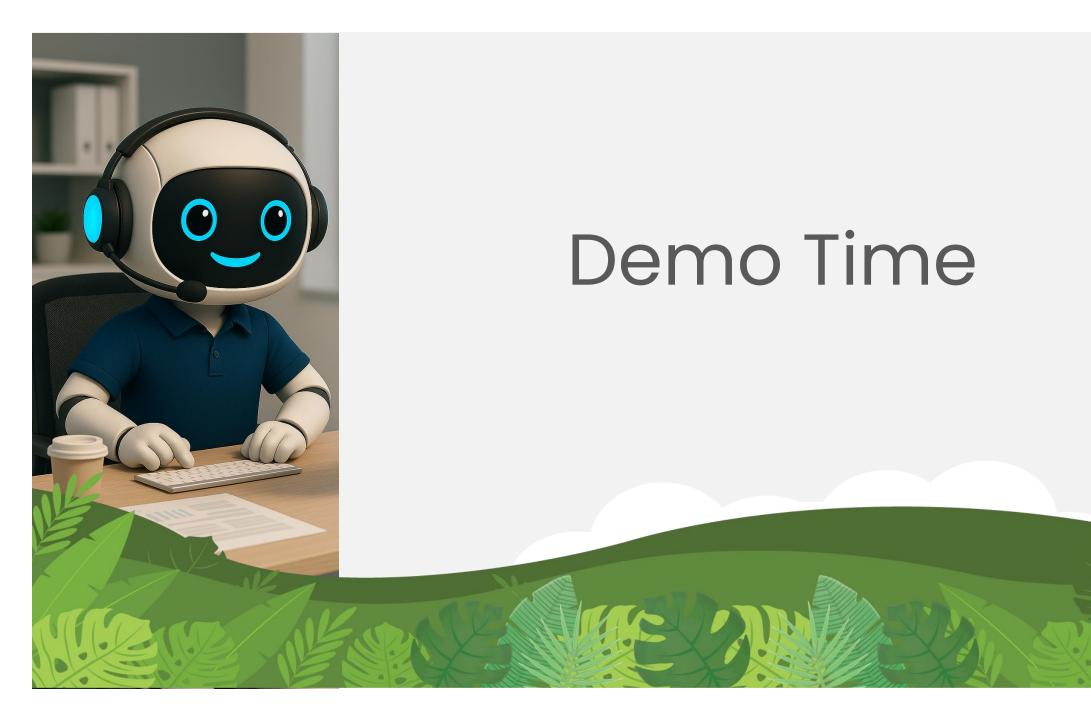The impact on the workforce and organisations

What is a Large Language Model?

Think of a Large Language Model like a supercharged version of predictive text on your phone.

LLMs learn by reading **millions of documents**—like textbooks, websites, medical guidelines—so they can respond to almost any question using patterns they've seen before.

Demo Time

In Summary

It's not magic—it's math. It calculates the most likely next word based on past patterns.

It's like a very fast reader and note-taker. It doesn't "understand" like a human, but it's been trained on more data than a person could ever read.

It helps with language tasks, not critical thinking or clinical judgment. You still need humans for that.

Ethical Considerations and Real-World Implications for Using AI in Healthcare

- Ethical Frameworks for AI Integration
- Application of professional codes of ethics to AI
- Common Ethical Concerns
- Case Examples: Ethical dilemmas and best practices
- Interactive Component: Ethical scenario discussions
- Practical Safety Tips

Ethical Principles to Consider

- Non-Maleficence

- Autonomy

- Beneficence

- Justice

First

Do No Harm

https://iepcourse.wordpress.com/2017/04/04/non-maleficence-first-do-no-harm/

More Ethical Principles

- Veracity

- Patient Privacy/HIPAA

- Bias

Position Statement

Nursing practice in digitally enabled care environments

https://www.cna-aiic.ca/en/policy-advocacy/policy-support-tools/position-statements

How AI will Impact the Nursing Profession

- Nursing education
- Workforce optimization
- Predictive analytics for staffing
- Task automation
- Skills development
- Workflow
- Remote patient monitoring
- Data-driven decision-making for improved patient care
- Streamline communication w/patients

https://www.cna-aiic.ca/en/policy-advocacy/policy-support-tools/position-statements

Ethical AI Deployment

- Promote transparency and explicability in model functions
- Develop processes for ensuring data privacy, integrity, and quality
- Keep human rights and dignity at the forefront of all AI-related activities

Privacy

- Data ownership, consent and permissions, de-identification, and reuse

Codes of Ethics

How Our Professional Codes of Ethics Can Guide Our Use of AI (or Any New Technology)

Code of Ethics for the Nutrition and Dietetics Profession

eat right. Academy of Nutrition and Dietetics

Codes of Ethics

College of Dietitians of Ontario Code of Ethics –
Approved March 24, 2024

College of Dietitians of Ontario

Responsibility to Clients

l. When using Artificial Intelligence (AI) tools such as Chatbots and virtual assistants, apply professional judgement to review AI output and ensure that the information generated when editing or creating content is consistent with equity, diversity and inclusion principles.

https://www.collegeofdietitians.org/jurisprudence-professional-practice-resources/code-of-ethics.aspx

Codes of Ethics

Responsibility to the Public

f. Uphold human autonomy when using technology, including Artificial Intelligence (AI) tools, ensuring individuals will retain decision-making authority, especially regarding person-centered outcomes. When using AI in healthcare, integrate it responsibly and ethically, improving dietetic services with professionalism and compassion.

Codes of Ethics

Responsibility to Self and the Profession

c. Engage in reflective practice, identify learning needs, and participate in continuing education, including learning about Equity, Diversity, Inclusion and Belonging (EDI-B). Stay up-to-date on best practices, including AI ethics and technology change for continued competence, quality assurance and quality improvement and professional growth. Support and foster learning together with colleagues and students.

https://www.collegeofdietitians.org/jurisprudence-professional-practice-resources/code-of-ethics.aspx

Case Examples –Ethical Scenarios Interactive Discussion

AI Use Cases in Healthcare

Workforce Support & Task Automation

Predictive Health Monitoring

Personalized Nutrition & Dining

Documentation Automation

Clinical Decision Support

Virtual Companions & Cognitive Support

Key Ethical Considerations of AI Implementation in Senior Care

Data Privacy and Security

Regulatory Compliance

Training and Transparency

Potential for Bias

Job Displacement and Workforce Upskilling

Accountability and Liability

Cost and Accessibility

Moderated Q & A

Thank You!