What Does Artificial Intelligence & Data Analytics Mean for Your Wellness Programming?

Affiliations & Disclosures

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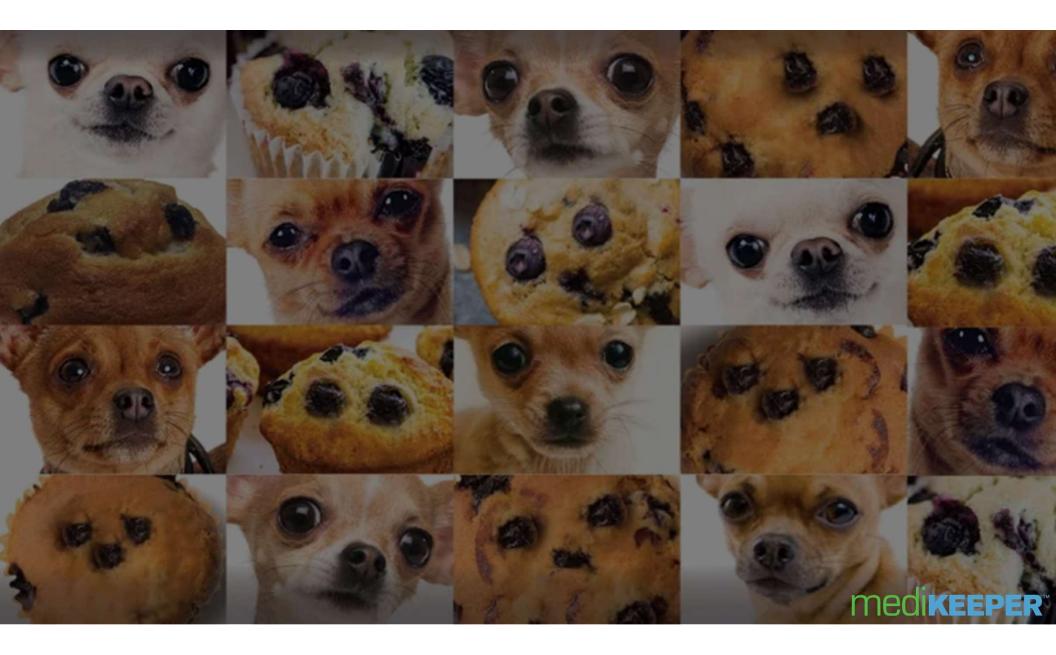


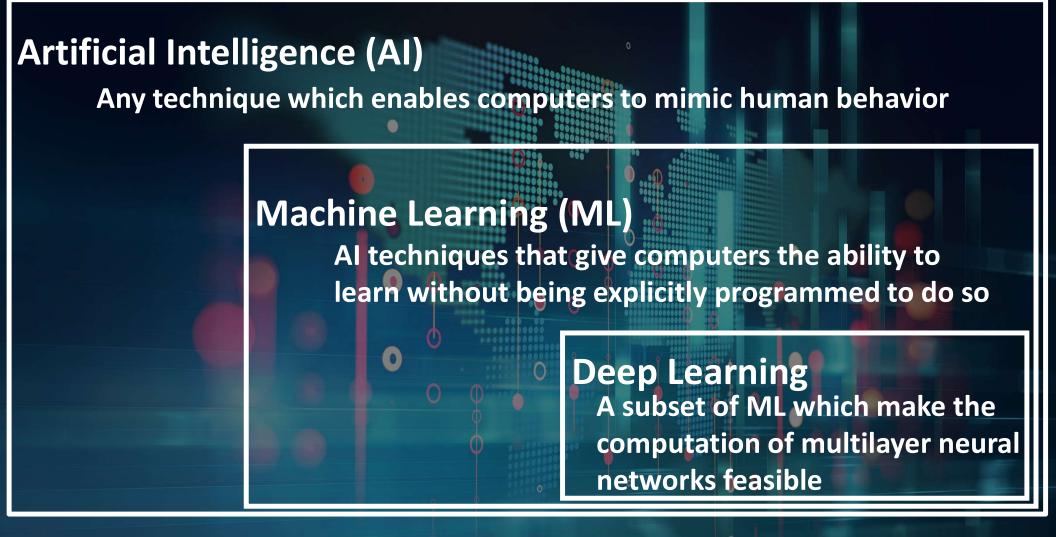
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Poll Question: What role does technology and data analytics play in your wellness solution?

Poll Question: Does your wellness programming use artificial intelligence to drive sustainable behavior change?

- 1. What is artificial intelligence?
- 2. I have no idea if my programming uses artificial intelligence!
- 3. I think artificial intelligence plays a role in my programming
- 4. Artificial intelligence plays a major role in my programming





1950 1960 1970 1980 1990 2000 2010 2020 2030 2040 2050 2060 2070

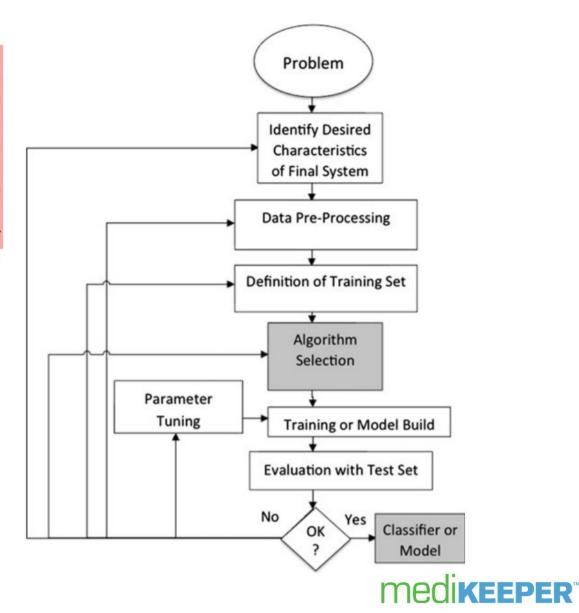
J Occup Rehabil (2013) 23:597–609 DOI 10.1007/s10926-013-9430-4

The use of machine learning classification techniques appears to have resulted in classification performance better than clinician decision-making.

and accompanying computer-based clinical decision support tool to help categorize injured workers toward optimal build a classification system with multiple independent and dependent variables. *Results* The population included

using Chi square and t-tests. Machine learning, concerned with the design of algorithms to discriminate between classes based on empirical data, was the foundation of our approach to build a classification system with multiple independent and dependent variables [63]. Machine Learning can help overcome human errors inherent in making complex classifications using multiple features or variables. The goal of machine learning is to build a concise model of the distribution of class labels in terms of predictive features [63]. In our case, the 'label' is the

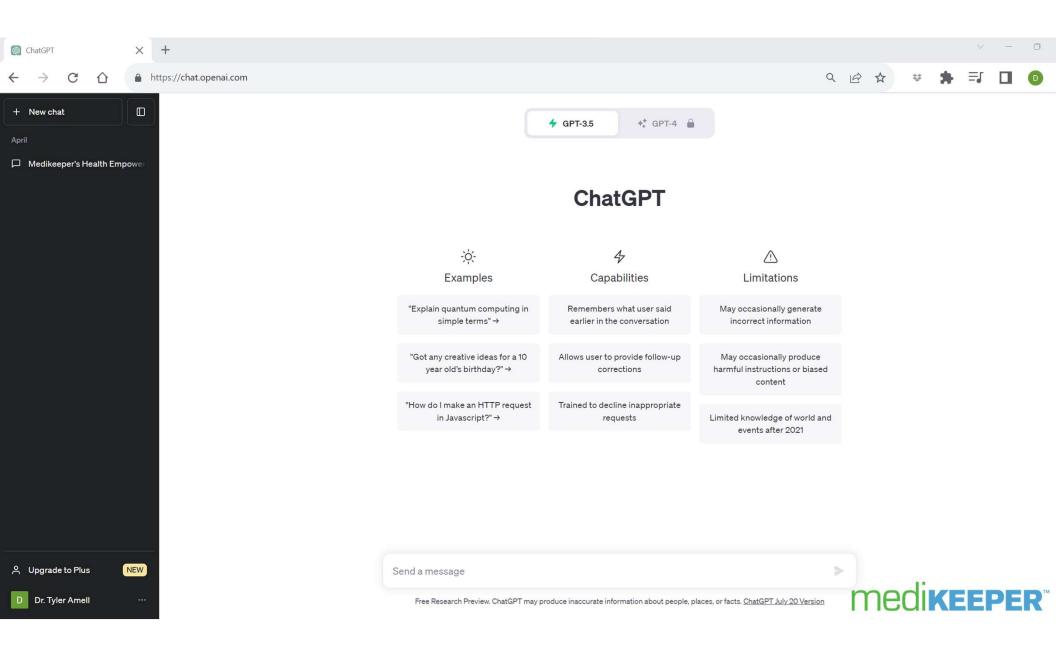
> R - Repeated I - Incremental P - Pruning P - Produce E - Error R - Reduction



Source: Gross, Zhang, Steenstra, Barnsley, Haws, Amell et al. 2013

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November 2022 ChatGPT is Released



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+ New chat	D	build me a workplace wellness program							
 □ Workplace Wellness ∠ 1 April □ Medikeeper's Health Empower 		 Designing a workplace wellness program requires careful planning and consideration of the needs and preferences of your employees. Below, I'll outline the steps to create a comprehensive workplace wellness program: 1. Assess Employee Needs: Conduct surveys or focus groups to understand the health and wellness needs and interests of your employees. Identify common health issues, stress factors, and preferences for wellness activities. 2. Set Clear Goals: Based on the assessment, establish clear and measurable goals for the wellness program. For example, you might aim to reduce stress, improve physical fitness, promote healthy eating habits, and enhance overall well-being. 3. Create a Wellness Committee: Form a wellness committee consisting of representatives from various departments. This team will be responsible for planning, implementing, and evaluating the program. It ensures diverse perspectives and broad involvement from the workforce. 4. Develop a Budget: Determine the budget for the program. Allocate funds for resources, events, incentives, and any external services you might need, like wellness workshops or experts. 5. Offer Health Screenings: Arrange for periodic health screenings, such as blood pressure, cholesterol, and BMI measurements. These assessments can help employees identify potential health risks and track their progress over time. 6. Promote Physical Activity: Encourage regular physical activity by organizing fitness challenges, group exercises, or programing and explanation and the program is a stress over time. 		J					
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+ New chat Today Workplace Wellness & 1 m April Medikeeper's Health Empower	 8. Promote Mental Health: Offer stress managem mental health resources, Create a supportive e comfortable discussing mental health concern 9. Organize Wellness Challenges: Run friendly codifferent aspects of wellness, such as step chall challenges. Offer incentives to motivate partici 10. Offer Flexibility: Support work-life balance by p options, or opportunities for personal days to m 11. Employee Assistance Program (EAP): Offer an and support services for employees facing per 12. Create a Wellness Calendar: Plan and promote could include health fairs, workshops, seminars wellness. 13. Measure and Evaluate: Regularly assess the eff and data analysis. Use this feedback to make in remains relevant and engaging. 14. Communicate and Engage: Consistently command opportunities for improvement. Use variou bulletin boards, and company newsletters. 15. Lead by Example: Encourage leadership to act promote a culture of well-being throughout the Remember, a successful workplace wellness proseek feedback from employees and be willing to and preferences. A healthy and engaged workfor reduced absenteeism, and improv 	nvironment where employees feel s. mpetitions or challenges focused on lenges, hydration challenges, or meditation pation. roviding flexible working hours, remote work educe stress and burnout. EAP that provides confidential counseling sonal or work-related challenges. wellness events throughout the year. This s, and team-building activities related to fectiveness of the program through surveys inprovements and ensure the program unicate about wellness activities, successes, s communication channels like emails, vely participate in the wellness program to forganization.					
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Strengths: Augmenting your own knowledge, and starting a foundation for you to build upon; personalization, health risk, navigation and workflow, behavior change

Weaknesses: Bias and ethical considerations, privacy, accuracy of information (only as good as the training material consumed)

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Integrated data sets, and their interpretation, driving information, knowledge, insight and action, are a key factor in the success of modern wellness programming.

Poll Question: How do you normally make decisions about your wellness programming?

- 1. Randomly, no rhyme or reason, if it feels good, do it!
- 2. Gut instinct, intangible
- 3. Some data, historical?
- 4. Combination of gut instinct and data
- 5. More data, real time?
- 6. Data analytics driven, prediction algorithms
- 7. Fully automated, artificial intelligence & machine learning
- 8. The autonomous robots are clearly in charge



Analytically Driven Organizations Outperform

49% Higher Revenue

20X Profit Growth

3% Higher Return on Invested Capital

Source: IBM

1/3 of leaders say they make critical decisions without the information they need

50% of leaders state they do not have access to the information from across the organization to do their jobs well

<u>ecikeeper</u>

"The harnessing, analysis and conversion of these data into knowledge represents the new competitive advantage in the drive toward productivity. It can help companies identify hidden insights to gain a comprehensive view of a customer, understand behaviors in real time, predict outcomes, make more informed decisions and move into new markets."

Source: IBM









Personalization Mental Health Financial Wellbeing MedikEEPER

Primary Prevention

Risk identification, lifestyle factors, triggered personalized programming (digital and virtual), self report & wearable tech or combination, culturally and generationally sensitive approaches

Secondary Prevention

Biometrics at home or onsite, genetic screening, healthy pathway correction

Tertiary Prevention

Disease management, healthy pathway maintenance, workplace accommodations

Open enrollment/onboarding Health Risk Assessment Guided workflows Triggered by risk and by interest **Communication modalities** Plant the seed for sustainable behavior change **Digital experience for most** Supported for some, virtual (AI bots) and human coaches **Timely feedback on progress** Incentivization of positive behaviors and outcomes **Behavior change programming Education and content** Only part of the solution

Some Technology Considerations

Build, Rent or Buy Security SaaS / On Prem Hosting Location Mobile First Responsive Design

> Ease of Use User Experience Guided Workflows Outcomes Medikeeper

Health Improvement Outcomes Does the data demonstrate:

> Are the users/people ready to change? Sustainable changes in lifestyle behaviors?

Improvements in diet, exercise, sleep, hydration, tobacco & alcohol use

Measurable improvements in biometric markers of modifiables?

Does your wellness program match your technology, or does your technology match your wellness program? There are pros and cons to each.

Configurability

Customizability

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Flexibility

Scalability

Ask yourself how can technology to be leveraged to improve....

User experience in the wellness programming

Enhancing utilization, engagement

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Internal manual processes (excel is not an award-winning wellness technology)

If your wellness program does not have strong technology, it will be left behind.



Biological Information



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Dr. Tyler Amell is an internationally recognized thought leader on the topic of workplace health and productivity. When he is not speaking at events around the world, he is a trusted advisor to organizations, including insurers, service providers, and employers, on strategic and integrated workplace health and productivity.

Dr. Amell is Chief Health and Strategy Officer at MediKeeper, a wellness technology company. He is also Faculty and Registrar at Pacific Coast University for Workplace Health Sciences and Faculty Lead for Work and the Workplace. He has given keynote addresses, seminars and plenary presentations at over 275 events around the world.

He also serves on the Executive Board of Directors of the National Wellness Institute (NWI), the Work Wellness Institute (WWI), and in the past the Integrated Benefits Institute (IBI) and the Canadian Association for Research on Work and Health (CARWH). He is a past CRO/CHO at a wellness technology company, a Partner/Vice President at a global HR consulting & technology company, CEO of a HR technology company, and Vice President of a large Healthcare and Rehabilitation company. Dr. Amell has recently contributed to events and publications of the AMJHP, IBI, Art & Science of Health Promotion, HERO, the Disability Management Employers Coalition (DMEC), the International Foundation of Employee Benefit Plans (IFEBP), Canadian Mental Health Association (CMHA), the Conference Board of Canada, the Occupational and Environmental Medical Association of Canada (OEMAC), the Canadian Board of Occupational Medicine (CBOM), and the Occupational Medical Society of Canada (OMSOC).