
ART OF MEDICINE “Representing Communication, Empathy, and Competence in the Era of Artificial Intelligence”

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Keywords

ABSTRACT

Medicine
Three C's
Power
Representing
Visually

Artificial Intelligence (AI) is presently incorporated into an assortment of fields, including medication. Human-made intelligence applications bring up various moral issues, mostly about the nature of care and patient-clinician connections. This article goes with two computerized photographs of art that address these thoughts narrative and outwardly, with an extraordinary accentuation on correspondence, empathy, and fitness.

Introduction

Three C'S

Greatness is broadly viewed as a characteristic of adequate medical care quality, frequently characterized regarding correspondence, sympathy, and competence [1-4]. Limited time is a hindrance to gaining and dominating these 3 C's if medical services conveyance frameworks center too barely around volume and overlook patients' and clinicians' requirements for compassion.

AI Power

Artificial Intelligence (AI) is, as of now, being embraced in numerous areas, including medical services [5]. The force of AI advances is evident in developments in handling colossal measures of information, profound learning calculations, and extension of AI ability to learn in less time than it takes a human being. AI applications in medical care incorporate quicker and regularly more precise findings through picture acknowledgment, pathology identification, and symptomatic assessment [6-9].

Quality Care and Patient-Clinician Relationships

Moral inquiries have been raised about AI's ability to sabotage or stifle sympathy and human association in wellbeing care. If appropriately executed in providing care, be that as it may, AI could sustain greatness and inspire hierarchical societies in which the 3 C's could be drilled and developed with thoroughness, perseverance, and care [10-14]. For instance, while an AI application executes undertakings, clinicians may have the option to invest energy speaking with patients, communicate sympathy, and convey respect with capability and satisfaction. Incorporating AI-based choice guides could likewise support clinicians' trust in consideration of the executive's decisions [15-19].

Representing the 3C's Visually

The primary picture welcomes a watcher to consider correspondence and sympathy as highlights of ordinary patient-clinician experiences. These abilities are shown on screens

reminiscent of AI as a digitized image of a conventional expert providing care—a stethoscope—and as a digitized pair of clasping hands, a customary image of fortitude and respect.



Figure 1: Communication and composition

In the forefront of the picture, the lady—may be a patient or a clinician—may respect this overwhelming stethoscope as a method for underscoring tuning in as a key to excellent correspondence in any relationship. The stethoscope's ringer and stomach's blue upper surface proposes how listening can be mending [20-23].

The Second picture depicts capability in 2 structures: insight, addressed as acquired in careful practice, and information, managed in books.



Figure 2: Competence, experience and knowledge

In the forefront of this picture, a man respects an overwhelming medical procedure in advancement. This current specialist's upper eyelids and nose propose long periods of gathered insight and information put into patients' help [24-26]. At the privilege of the picture, a book's blue spine recommends this time that, as water extinguishes a clinician's hunger for information, it streams later to patients during clinical experiences

References

- [1] Yarram, V. K., & Parimi, S. K. (2024). The Next Frontier of Enterprise Transformation: A Comprehensive Analysis of Generative AI as a Catalyst for Organizational Modernization, Intelligent Automation, and Large-Scale Knowledge Acceleration Across Global Digital Ecosystems. *The Metascience*, 2(2), 97-106.
- [2] Jaladi, D. S., & Vutla, S. (2024a). Machine Learning Techniques for Analyzing Large-Scale Patient Databases. *International Journal of Modern Computing*, 7(1), 181-198.
- [3] Yallavula, R., & Putchakayala, R. (2022). A Data Governance and Analytics-Enhanced Approach to Mitigating Cyber Threats in NoSQL Database Systems. *International Journal of Emerging Trends in Computer Science and Information Technology*, 3(3), 90-100.
- [4] Jaladi, D. S., & Vutla, S. (2020b). Machine Learning Demystified: Concepts, Algorithms, and Use Cases. *The Computertech*, 1-12.
- [5] Yallavula, R., & Putchakayala, R. (2024). AI for Data Governance Analysts: A Practical Framework for Transforming Manual Controls into Automated Governance Pipelines. *International Journal of AI, BigData, Computational and Management Studies*, 5(1), 167-177.
- [6] Jaladi, D. S., & Vutla, S. (2021b). Quantum AI: Accomplishments and Obstacles in the Convergence of Quantum Computing and Artificial Intelligence. *International Journal of Modern Computing*, 4(1), 86-95.
- [7] Yallavula, R., & Yarram, V. K. (2021). An AI Framework for Monitoring Rule Changes in Highly Volatile Compliance Environments. *The Computertech*, 39-53.
- [8] Gudepu, B. K., & Jaladi, D. S. (2022b). Why Real-Time Data Discovery is a Game Changer for Enterprises. *International Journal of Acta Informatica*, 1(1), 164-175.
- [9] Jaladi, D. S., & Vutla, S. (2022a). Artificial Intelligence's Influence on Design: A New Era of Creative Collaboration. *International Journal of Acta Informatica*, 1(1), 188-198.
- [10] Yarram, V. K., & Cherukuri, R. (2023). From Data to Decisions: Architecting High-Performance AI Platforms for Fortune 500 Ecosystems. *The Metascience*, 1(1), 306-324.
- [11] Wu, X., Jiang, L., Wang, P. S., Liu, Z., Liu, X., Qiao, Y., ... & Zhao, H. (2024). Point transformer v3: Simpler faster stronger. In *Proceedings of the IEEE/CVF conference on computer vision and pattern recognition* (pp. 4840-4851).
- [12] Yallavula, R., & Putchakayala, R. (2023). Governance-of-Things (GoT): A Next-Generation Framework for Ethical, Intelligent, and Autonomous Web Data

- Acquisition. *International Journal of Artificial Intelligence, Data Science, and Machine Learning*, 4(4), 111-120.
- [13] Gudepu, B. K., Jaladi, D. S., & Gellago, O. (2023). How Data Catalogs are Transforming Enterprise Data Governance: A Systematic Literature Review. *The Metascience*, 1(1), 249-264.
- [14] Yarram, V. K., & Yallavula, R. (2022). Adaptive Machine Learning Driven Compliance Scoring Models for Automated Risk Detection, Quality Validation of AI-Generated Content in Regulated Industries. *International Journal of Emerging Research in Engineering and Technology*, 3(1), 116-126.
- [15] Putchakayala, R., & Cherukuri, R. (2022). AI-Enabled Policy-Driven Web Governance: A Full-Stack Java Framework for Privacy-Preserving Digital Ecosystems. *International Journal of Artificial Intelligence, Data Science, and Machine Learning*, 3(1), 114-123.
- [16] Cohen, M. (2022). *Rethinking Thinking: Problem Solving from Sun Tzu to Google*. Andrews UK Limited.
- [17] Putchakayala, R., & Cherukuri, R. (2024). AI-Enhanced Event Tracking: A Collaborative Full-Stack Model for Tag Intelligence and Real-Time Data Validation. *International Journal of Artificial Intelligence, Data Science, and Machine Learning*, 5(2), 130-143.
- [18] Cherukuri, R., & Putchakayala, R. (2022). Cognitive Governance for Web-Scale Systems: Hybrid AI Models for Privacy, Integrity, and Transparency in Full-Stack Applications. *International Journal of AI, BigData, Computational and Management Studies*, 3(4), 93-105.
- [19] Jaladi, D. S., & Vutla, S. (2018a). An Analysis of Big Data Analytics in Relation to Artificial Intelligence and Business Intelligence. *The Computertech*, 37-46.
- [20] Cherukuri, R., & Yarram, V. K. (2023). AI-Orchestrated Frontend Systems: Neural Rendering and LLM-Augmented Engineering for Adaptive, High-Performance Web Applications. *International Journal of Emerging Research in Engineering and Technology*, 4(3), 107-114.
- [21] Jaladi, D. S., & Vutla, S. (2018b). The Use of AI and Big Data in Health Care. *The Computertech*, 45-53.
- [22] Cherukuri, R., & Yarram, V. K. (2024). From Intelligent Automation to Agentic AI: Engineering the Next Generation of Enterprise Systems. *International Journal of Emerging Research in Engineering and Technology*, 5(4), 142-152.
- [23] Gudepu, B. K., & Jaladi, D. S. (2018b). The Role of Data Quality Scorecards in Measuring Business Success. *The Computertech*, 29-36.
- [24] Parimi, S. K., & Cherukuri, R. (2024). Proactive AI Systems: Engineering Intelligent Platforms that Sense, Predict, and Act. *International Journal of Emerging Trends in Computer Science and Information Technology*, 5(3), 122-130.
- [25] Jaladi, D. S., & Vutla, S. (2024b). The Role of Artificial Intelligence in Modern Medicine. *The Metascience*, 2(4), 96-106.

- [26] Parimi, S. K., & Yallavula, R. (2023). Enterprise Risk Intelligence: Machine Learning Models for Predicting Compliance, Fraud, and Operational Failures. *International Journal of Emerging Trends in Computer Science and Information Technology*, 4(2), 173-181.
- [27] Xiong, Z., Liang, Z., Liu, X., Feldmann, M., & Li, J. (2023). Steel-UHPC composite dowels' pull-out performance studies using machine learning algorithms. *Steel and Composite Structures*, 48(5), 531-545.
- [28] Parimi, S. K., & Yallavula, R. (2025). Generative AI for Enterprise Trust: A Governance-Aligned Framework for Safe and Transparent Automation at Global Scale. *International Journal of Artificial Intelligence, Data Science, and Machine Learning*, 6(1), 218-225.
- [29] Himeur, Y., Varlamis, I., Kheddar, H., Amira, A., Atalla, S., Singh, Y., ... & Mansoor, W. (2023). Federated learning for computer vision. *arXiv preprint arXiv:2308.13558*.
- [30] Parimi, S. K., & Yarram, V. K. (2022). AI-First Enterprise Architecture: Designing Intelligent Systems for a Global Scale. *The Computertech*, 1-18.
- [31] Koç, B., & Çetintaş, D. (2024). Diagnosis Enhancement Using Deep Learning: YOLOv11-YOLOv8 for Alzheimer's and Parkinson's Disease Detection. *UAKK 2024*, 13.
- [32] Kshetri, N., Hughes, L., Louise Slade, E., Jeyaraj, A., Kumar Kar, A., Koohang, A., ... & Wright, R. (2023). "So what if ChatGPT wrote it?" Multidisciplinary perspectives on opportunities, challenges and implications of generative conversational AI for research, practice and policy. *International Journal of Information Management*, 71, 102642.
- [33] Putchakayala, R., & Parimi, S. K. (2023). AI-Optimized Full-Stack Governance A Unified Model for Secure Data Flows and Real-Time Intelligence. *International Journal of Modern Computing*, 6(1), 104-112.
- [34] Jaladi, D. S., & Vutla, S. (2019a). Deploying Breiman's Random Forest Algorithm in Machine Learning. *The Computertech*, 45-57
- [35] Putchakayala, R., & Yallavula, R. (2024). AI-Driven Federated Data Governance: Building Trustworthy and Sustainable Digital Ecosystems. *International Journal of Modern Computing*, 7(1), 219-227.
- [36] Yarram, V. K., & Cherukuri, R. (2025). User Experience Patterns for Front-End Integration of Retrieval-Augmented Generation in Enterprise Platforms. *International Journal of Emerging Trends in Computer Science and Information Technology*, 6(2), 87-94.
- [37] Williams, R., Ali, S., Devasia, N., DiPaola, D., Hong, J., Kaputsos, S. P., ... & Breazeal, C. (2023). AI+ ethics curricula for middle school youth: Lessons learned from three project-based curricula. *International Journal of Artificial Intelligence in Education*, 33(2), 325-383.
- [38] Yarram, V. K., & Parimi, S. K. (2021). Design and Implementation of a Responsible, Explainable, and Compliance-Driven AI Architecture for Enterprise-Scale Content Management Systems Integrating Generative Models, Retrieval Pipelines, and Real-

- Time Governance Controls. *International Journal of Modern Computing*, 4(1), 96-110.
- [39] Jaladi, D. S., & Vutla, S. (2019b). Revolutionizing Healthcare Through Quantum Computing: Insights and Future Directions. *International Journal of Modern Computing*, 2(1), 60-83.
- [40] Putchakayala, R., & Yallavula, R. (2025). The Intelligent Governance Core: A Multi-Layer AI Framework for Predictive Compliance and Autonomous Digital Analytics. *International Journal of AI, BigData, Computational and Management Studies*, 6(1), 171-179.
- [41] Lurie-Luke, E. (2024). Alternative protein sources: science powered startups to fuel food innovation. *Nature Communications*, 15(1), 4425.
- [42] Putchakayala, R., & Yarram, V. K. (2025). Adaptive Trust Engineering: AI-Driven Full-Stack Mechanisms for Privacy, Compliance, and Data Quality. *The Metascience*, 3(2), 1-21.
- [43] Yallavula, R., & Parimi, S. K. (2022). Bridging Data, Intelligence, and Trust the Future of Computational Systems and Ethical AI. *International Journal of Modern Computing*, 5(1), 119-129.
- [44] Jaladi, D. S., & Vutla, S. (2020a). Leveraging Data Mining to Innovate Agricultural Applications. *International Journal of Modern Computing*, 3(1), 34-46.
- [45] Parimi, S. K., & Yallavula, R. (2021). Data-Governed Autonomous Decisioning: AI Models for Real-Time Optimization of Enterprise Financial Journeys. *International Journal of Emerging Trends in Computer Science and Information Technology*, 2(1), 89-102.
- [46] Feng, P., Bi, Z., Wen, Y., Pan, X., Peng, B., Liu, M., ... & Jiang, Z. (2024). Deep Learning and Machine Learning, Advancing Big Data Analytics and Management: Unveiling AI's Potential Through Tools, Techniques, and Applications. *arXiv preprint arXiv:2410.01268*.
- [47] Cherukuri, R., & Parimi, S. K. (2025). AI-Enabled Architecture for Large-Scale Multi-Tenant Systems. *International Journal of Modern Computing*, 8(1), 1-10.
- [48] Jaladi, D. S., & Vutla, S. (2017). Harnessing the Potential of Artificial Intelligence and Big Data in Healthcare. *The Computertech*, 31-39.
- [49] Cherukuri, R., & Putchakayala, R. (2021). Frontend-Driven Metadata Governance: A Full-Stack Architecture for High-Quality Analytics and Privacy Assurance. *International Journal of Emerging Research in Engineering and Technology*, 2(3), 95-108.
- [50] Gudepu, B. K., & Jaladi, D. S. (2018a). The Role of Data Profiling in Improving Data Quality. *The Computertech*, 21-26.