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# The Loyal Employee

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## Unveiling Tomorrow: IT's Pioneering Role in Revitalising Healthcare

The integration of Information Technology (IT) in the healthcare sector is a beacon of transformation amidst modern challenges. This article illuminates the role of Artificial Intelligence (AI), Machine Learning (ML), Natural Language Processing (NLP), and low-code solutions in healthcare. By exploring real-world examples and statistics, we shed light on recent transformations and envisage the potential advancements in 2024, anticipating a shift towards more proactive healthcare models.



Co-Owner | Business Development Director | IT Architect | SOFTDOTS

### **A Digital Awakening**

The healthcare sector is navigating a digital renaissance fuelled by IT. Sophisticated algorithms, intuitive software, and agile low-code platforms are emerging as the vanguards orchestrating a more efficient, accessible, and personalised healthcare ecosystem.

### **The Contemporary Canvas**

Recent advancements have illustrated the monumental impact of IT in healthcare. Al and ML are streamlining diagnostic procedures and bolstering predictive analytics, aiding in the management and diagnosis of diseases like kidney disorders. Similarly, NLP is enhancing the interaction between healthcare providers and electronic health record systems. The essence of low-code solutions is also gaining recognition, offering a swift, cost-effective avenue to develop

tailored healthcare applications (Excellarate 2023; Acropolium 2023; Akveo Blog 2023).

In a significant stride, Microsoft introduced healthcare-centric data solutions in 2023, facilitating a unified data analysis platform. The deployment of Azure AI Health Insights, Azure AI Health Bot, and Text Analytics via Azure AI Language is revolutionising data analytics, clinical workflows, and patient-physician interactions. For instance, the Dragon Ambient eXperience (DAX) Copilot system, utilising NLP, automates clinical documentation, allowing clinicians to focus more on patient care (Forbes 2023).

A December 2021 survey by health insurer Optum revealed that 85% of healthcare executives have an Al strategy, and almost half now employ this technology. The global AI in healthcare market size, valued at USD 15.4 billion in 2022, is projected to expand at a compound



annual growth rate (CAGR) of 37.5% from 2023 to 2030. Moreover, healthcare spending on AI software is anticipated to grow 40% in 2023, from \$4.4 billion in 2022 to nearly \$6.2 billion (AI Business 2023).

### The Horizon: 2024

As we approach 2024, the alliance between IT and healthcare is set to deepen. Anticipated advancements include robust AI algorithms for early disease detection, low-code platforms enabling broader engagement in app development, and NLP further refining patient-provider communication.

### **Recapitulating the Journey**

The meld between IT and healthcare is a beacon of hope in delivering a patient-centric, efficient, and innovative healthcare model. As we transition into a new year, the sector is ripe for further technological ingenuity, promising a healthcare domain that's not only responsive but also proactive in fostering well-being.

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