

# INTEGRATING AI FOR ENHANCED HCP ENGAGEMENT



# Introduction

#### **Background**

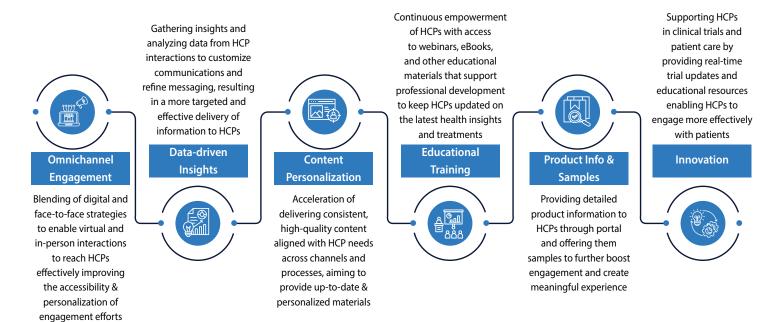
The healthcare sector is constantly evolving, with professionals requiring continuous learning to stay updated on the latest medical developments, practices, technologies and treatments. There are web-based applications that help Healthcare Professionals (HCPs) with information on medical products, learning materials, patient care resources and access to webinars and conferences. However, with the introduction of Artificial Intelligence (AI), the application can be significantly enhanced to meet personalized and dynamic needs of HCPs along with other digital interventions.

Al can not only automate processes but also create customized learning paths, offer tailored content recommendations, and enable the real-time answering of their queries.

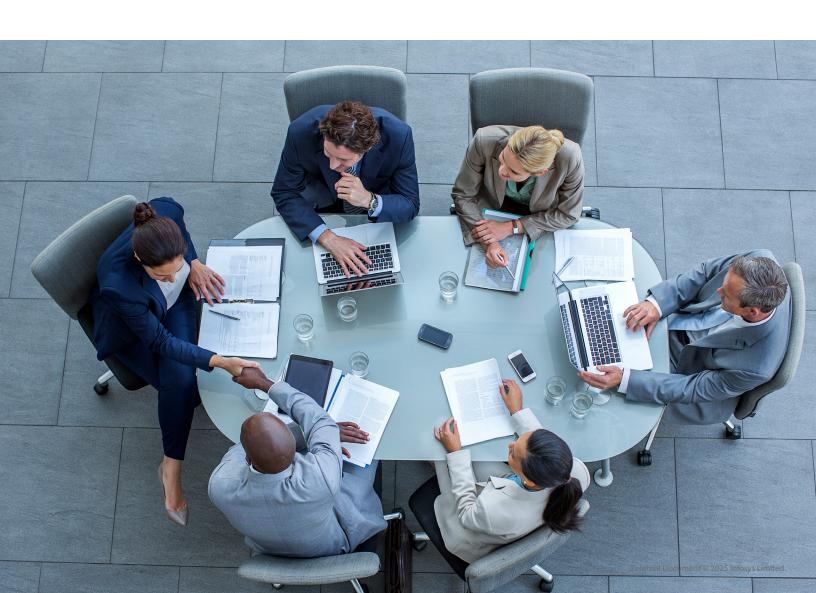
This article aims to outline how AI can be effectively integrated into the existing landscape of HCP engagement journey to create a smarter, more interactive, and personalized interaction.



#### **Evolving Landscape of Consumer Healthcare**



Infosys has been supporting clients across various HCP touchpoints through strategic technology interventions aimed at enhancing operational efficiency and improving patient outcomes



# Exploring the conventional HCP engagement journey and understanding existing challenges

STAGES

**FOUCHPOINTS** 

CHALLENGES



#### **Awareness**



- HCP-centric resources on web pages
- Complementary **Product samples**



Registration

- Personalized Experience
- Virtual Events/ Webinars
- FAQs resources, onboarding support



#### **Education**

- Learning Modules
- Quizzes/ Assessment
- Networking Events



#### Interaction

- Virtual Assistants
- Ouick Search
- Real-time chatbots & Support systems
- HCP forums



Growth

- Rewards Program
- Detailed Analytics & Insights
- Personalized offers & Recognition programs



Retention

- Retarget mailers
- Continuous campaigns
- · Social sharing and advocacy tools

# Omnichannel Complexity

Managing multiple channels to ensure consistent and effective communication can be challenging

# Compliance & Regulations

Ensuring that the registration process complies with various regulations and standards can be complex

## Content Personalization

Creating and delivering personalized educational content that meets the specific needs of HCPs can be resource-intensive

## Sustaining **Engagement & Trust**

Maintaining continuous engagement and building trust with HCPs through interactions is crucial but challenging

# Data-driven Insights

Gathering and analyzing data from HCP interactions to tailor communications and refine messaging is essential for growth but can be complex

## Continuous Campaigns

Running continuous campaigns to keep **HCPs** engaged and loyal requires significant effort and resources

# **Personalized Data** Utilization

Leveraging data to create personalized experiences for HCPs is often difficult due to data silos and integration issues

# **Technical Issues**

Problems such as special characters in city names and missing mandatory fields causing registration failures and order submissions

# Meaningful **Engagement**

Keeping HCPs engaged with educational content over time is a significant challenge

# **Real-time Support**

Providing real-time support and quick responses to HCP queries can be difficult without advanced systems in place

## **Efficient Scalability**

Scaling engagement efforts to cater to an increasing number of HCPs without proportional increases in resources

## Personalized Offers & **Recognition Programs**

Developing and maintaining personalized offers and recognition programs to retain HCP

# Benefits of integrating AI into HCP engagement for enhanced interaction

**Awareness** 



Omnichannel

journey



The HCP is engaged through targeted webinars to build awareness



Registration



## **Capture Information** & Sign in

The HCP captures key information & starts registration via HCP engagement portal



**Education** 



## Learning modules & **Educational material**

The HCP begins exploring learning modules & educational material



Interaction



### Quizzes, ordering samples, chatbots

The HCP accesses quizzes, orders samples & interacts with chatbots



Growth



## Personalized content and recommendations

The HCP receives tailored content based on their interests and queries.



Retention



### Loyalty **Programs**

HCPs are engaged through rewards system and webinars



AI ENHANCEMENT	Al analyzes publicly available data to personalize initial outreach, ensuring that HCPs receive highly relevant, specialty-specific content right from the beginning.	Al customizes registration questions based on the HCP's specialty. For example, if the user is a pediatrician, the questions will focus on pediatrics.	Al presents tailored learning tracks based on the HCP's specialty, prior learning activity, and preferences.	If the HCP struggles with a concept, Al suggests more engaging exercises, leverages mining and smart search to respond to HCP's queries.	Al delivers personalized content & recommendations to HCPs by analyzing interests and past interactions, ensuring engaging experience.	Al compiles the HCP data and provides recommendations on future webinars, newly launched samples etc.
ENABLER	Natural Language Machine Learning Dynamic Content Al-Powered Cloud Platforms' Recommendation Content Processing (NLP) Framework Generation Predictive Analytics Al Services Engines Management System  SpaCy ○ PyTorch Power BI AZURE ○ Google Cloud ★ Watson ★ CONTENTSTACK*					
VALUE*	J 30%	f 50%  Boosts Engagement	20% User Satisfaction	J 30%	40% Support-related Costs	30% Course Relevance

\*Source: https://www.matsh.co/en/statistics-on-personalized-learning-effectiveness/



## Conclusion



Integrating AI into the HCP engagement journey presents a transformative opportunity to overcome long-standing challenges such as data silos, compliance complexities, and resource-intensive personalization. By leveraging AI technologies like NLP, predictive analytics, and recommendation engines, organizations can deliver tailored content, streamline registration, enhance educational experiences, and provide real-time support. This not only boosts engagement and satisfaction but also drives operational efficiency and scalability.



# Next Steps...



Pilot Al-driven personalization in content delivery and registration workflows



**Integrate AI-powered tools** such as chatbots, recommendation engines, and predictive analytics



**Break down data silos** by implementing centralized data management systems



Collaborate with technology partners to co-develop scalable Al solutions



**Expand AI capabilities** to include dynamic content generation and real-time support across multiple channels



Monitor key performance metrics to measure Al effectiveness



# About the Authors



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Sudeep is a Senior Principal in Life Sciences consulting practice at Infosys and has more than 20 years' experience in Life Sciences domain. He leads the Enterprise Transformation practice which primarily deals with Program Management, Project Management, Portfolio Management and agile ways of working.



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# **Bilay**

Bilay is a seasoned Business Consultant with over 10 years of experience, specializing in business analysis, strategic consulting, and functional solutioning. He brings deep expertise in translating business needs into actionable insights, requirements elicitation, and stakeholder engagement. Bilay has worked extensively across the Healthcare and Life Sciences domains, contributing to transformative initiatives in digital enablement, workflow optimization and automation and data management.

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