Applications of Generative AI in Healthcare

In the healthcare industry, challenges like staff shortages, clinician burnout, and declining profits persist. However, leveraging new technologies is crucial for maintaining quality care. Generative AI offers promising solutions by democratizing knowledge, enhancing interoperability, speeding up discovery, and enabling personalized healthcare.
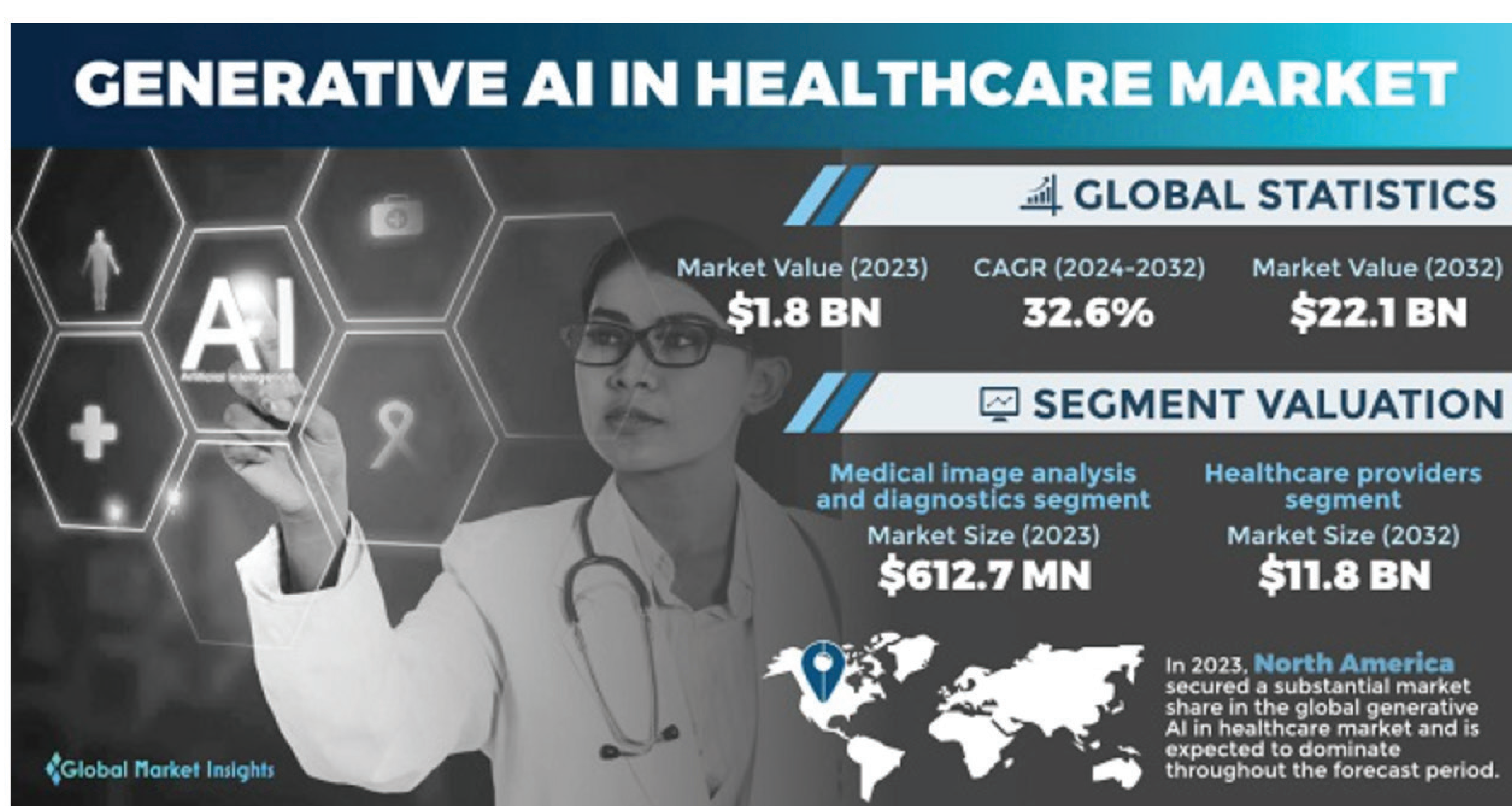
What does the Stats Say?

A shortage of **1.1 million** nurses leads many organizations to rely on contract labor.

Clinicians face escalating workloads and administrative burdens, resulting in **81% reporting** high or moderate levels of burnout.

Only **45%** of front-line clinicians trust their leadership to prioritize patient care.

Generative AI in healthcare can potentially eliminate significant portions of the **$1 trillion** in wasted healthcare spending

GENERATIVE AI IN HEALTHCARE MARKET

GLOBAL STATISTICS

Market Value (2023)	CAGR (2024-2032)	Market Value (2032)
$1.8 BN	32.6%	$22.1 BN

SEGMENT VALUATION

Medical image analysis and diagnostics segment Market Size (2023)	Healthcare providers segment Market Size (2032)
$612.7 MN	$11.8 BN

In 2023, **North America** secured a substantial market share in the global generative AI in healthcare market and is expected to dominate throughout the forecast period.

Global Market Insights

Generative AI in Healthcare Use Cases

EHR Management
Enhances electronic health record (EHR)management by summarizing patient notes, extracting data, and creating comprehensive systems, overcoming challenges faced by traditional AI models.

Medical Scribe
Create accurate medical notes in real-time with advanced speech recognition and natural language generation capabilities, This further streamlines patient-provider interactions, allowing medical scribes to prioritize patient care and communication.

Patient Scheduling
Enhances personalization and adaptability by recommending optimal appointment times, predicting no-shows, and adjusting schedules in real-time based on patient preferences, and historical data.
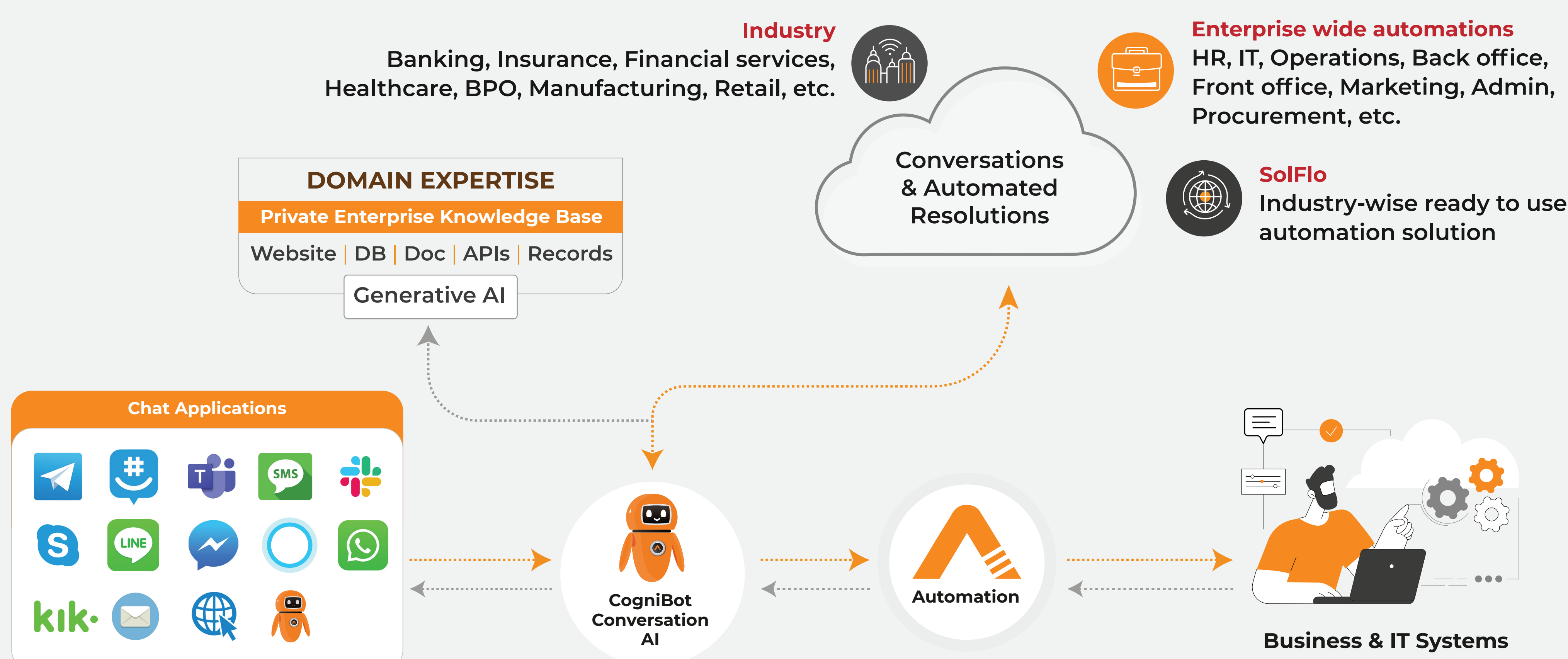
Personalized Patient Experience
Supports live agents by summarizing inquiries and offering personalized feedback in real time, reducing resolution time, enhancing customer satisfaction, and cutting operational costs.

Claims Denial Management
Offers a solution by efficiently retrieving relevant context from policy databases and crafting tailored appeal letters using patient data from Electronic Health Records (EHR). This technology streamlines the appeals process, potentially recovering billions of dollars in unclaimed revenue for providers.

AutomationEdge's Generative AI +Automation Capabilities

Industry
Banking, Insurance, Financial services, Healthcare, BPO, Manufacturing, Retail, etc.

Enterprise wide automations
HR, IT, Operations, Back office, Front office, Marketing, Admin, Procurement, etc.

Conversations & Automated Resolutions

SolFlo
Industry-wise ready to use automation solution

DOMAIN EXPERTISE
Private Enterprise Knowledge Base
Website | DB | Doc | APIs | Records
Generative AI

Chat Applications

CogniBot Conversation AI

Automation

Business & IT Systems

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