

# AI Readiness Report

# Healthcare Industry

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**Pathsetter AI**

# Table of Contents

Global Outlook

Indian Outlook

AI Role

Job Role

Return on Investment

AI Solutions

Risk Matrix

# AI Quick Scan

Global Outlook

Indian Outlook

Job Roles

Return on Inv.



**US\$8.9trn**

Current Market Size

**US\$20trn**

Projected Market Size

**14.4%**

Industry CAGR  
(overall)

**27-33%**

Boost from GenAI

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# AI Quick Scan

Indian Outlook | AI's Role | Job Role | Return on Investment



**US\$430biln**

Current Market Size

**US\$990biln**

Projected Market Size

**14.9%**

Industry CAGR  
(overall)

**27-33%**

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# AI Quick Scan

## AI's Role

Job Roles

Return on Investment

AI Solutions

### 1. Diagnostics & Imaging:

AI aids radiologists and pathologists in interpreting medical images such as MRIs, CT scans, and X-rays, enabling quicker and more accurate diagnostics.

### 2. Predictive & Preventive Healthcare:

AI enables early disease prediction through genetic, behavioral, and environmental data analysis, allowing for preventive measures and personalized care plans.

### 3. Clinical Decision Support (CDS):

AI-powered CDS systems provide healthcare providers with real-time, evidence-based recommendations, assisting in diagnosis, treatment options, and risk assessments.

### 4. Patient Monitoring & Remote Care:

AI-integrated wearable devices and IoT systems monitor patients remotely, alerting healthcare providers to early signs of health deterioration and improving chronic disease management.

### 5. Healthcare Administration & Operations:

AI enhances administrative tasks by automating scheduling, billing, and claims processing, reducing operational costs, and improving resource allocation.

# AI Quick Scan

## AI's Role

Job Roles

Return on Investment

AI Solutions

### 7. Telemedicine & Virtual Health Assistants:

AI-driven chatbots and virtual assistants support telemedicine platforms, providing primary care consultations, mental health support, and patient education.

### 8. Electronic Health Record (EHR) Management:

AI streamlines EHR management by automatically updating patient records, reducing documentation burdens on healthcare providers, and enhancing data retrieval for better care coordination.

### 9. Supply Chain Management:

AI optimizes supply chains for hospitals and healthcare facilities by predicting inventory needs, minimizing shortages, and reducing wastage.

# AI Quick Scan

Job Roles | Return on Investment | AI Solutions | Risk Matrix

Role	Tasks	Tasks that can be Augmented by GenAI
Radiologist	<ul style="list-style-type: none"><li>Automated image analysis and abnormality detection in X-rays, MRIs, and CT scans.</li><li>AI-driven triage to prioritize urgent cases.</li><li>Predictive analytics for patient risk of certain diseases based on imaging.</li><li>Improved diagnostic accuracy through AI-assisted pattern recognition.</li></ul>	75%
Primary Care Physician	<ul style="list-style-type: none"><li>Real-time diagnostic support and symptom analysis.</li><li>Predictive health insights based on patient lifestyle and medical history.</li><li>Automated patient follow-up scheduling and reminders.</li><li>AI-powered virtual assistants for routine inquiries and support.</li></ul>	20%
Healthcare Administrator	<ul style="list-style-type: none"><li>AI-driven scheduling and resource allocation.</li><li>Predictive analytics for hospital admission trends.</li><li>Automated claims processing and billing accuracy checks.</li><li>Optimization of staff utilization and patient flow.</li></ul>	70%

# AI Quick Scan

Job Roles | Return on Investment | AI Solution | Risk Matrix

Role	Tasks	Tasks that can be Augmented by GenAI
Pharmacist	<ul style="list-style-type: none"><li>Automated prescription management and drug interaction checks.</li><li>AI-driven inventory management for optimal stock levels.</li><li>Patient adherence monitoring through AI-powered reminders.</li><li>AI-assisted drug repurposing insights for customized patient care.</li></ul>	50%
Telemedicine Specialist	<ul style="list-style-type: none"><li>Virtual consultations supported by AI-driven symptom checkers.</li><li>NLP-based chatbots for initial assessments and patient education.</li><li>Predictive analytics for remote patient monitoring.</li><li>Personalized patient follow-ups based on AI-driven insights.</li></ul>	65%
Nurse	<ul style="list-style-type: none"><li>AI-assisted triage for prioritizing patient care.</li><li>Real-time monitoring and alert systems for high-risk patients.</li><li>Automated documentation and patient history updates.</li><li>Predictive analytics for patient discharge planning and care transitions.</li></ul>	55%

# AI Quick Scan

## Return on Investment

AI Solution

Risk Matrix

AI investments in healthcare range between **\$300,000 and \$5 million**, yielding considerable returns in cost reduction, improved patient outcomes, and operational efficiency.

### Total Investment Costs:

Small-Scale

**\$300,000 to \$700,000 per year**

Medium-Scale

**\$1 million to \$2 million per year.**

Large-Scale

**\$3 million to \$5 million+ per year**

### Potential Returns in Financial Terms:

Revenue Growth:

**10-18%**

increase in revenue

Cost Savings:

**20-40%**

reduction in operational costs and administrative costs.

Risk Reduction:

**15-25%**

reduction in diagnostic and clinical errors.

Productivity Boost:

**30-50%**

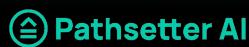
faster diagnostic and administrative processes.

Patient Satisfaction:

**20-30%**

increase in patient satisfaction and engagement.

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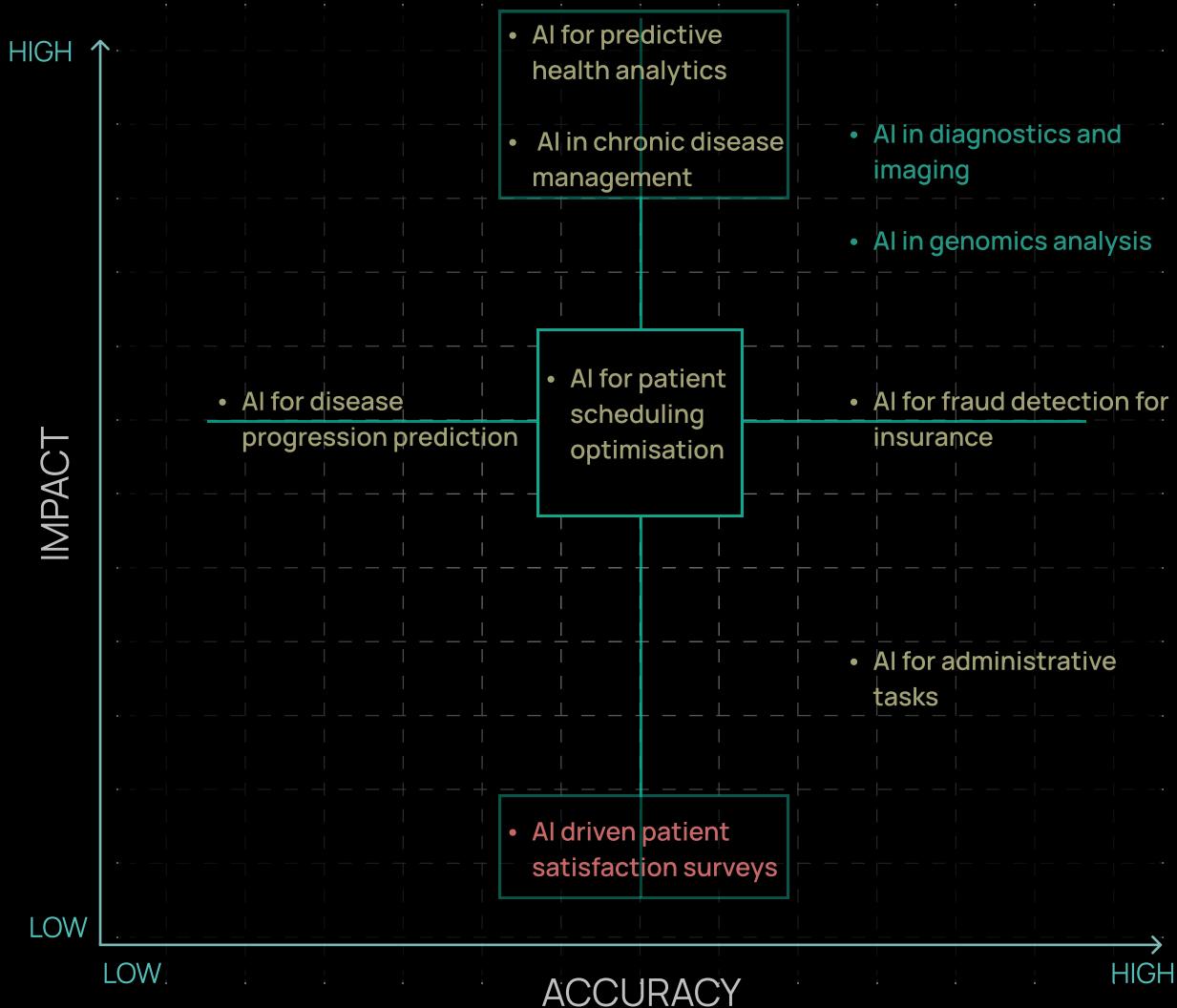
# AI Quick Scan

[AI Solution](#) | [Risk Matrix](#) | [Disclaimer](#) | [Global Outlook](#)

- **Medical Imaging & Diagnostics:** AI-powered tools improve diagnostics accuracy and speed, reducing radiologist workload by 30-40%.
- **Remote Patient Monitoring:** AI-enhanced wearable devices and home monitoring systems improve patient compliance and detect early signs of complications, reducing hospital admissions by 15-25%.
- **Telemedicine & Virtual Care:** AI-driven virtual assistants and telemedicine tools streamline remote consultations, reducing non-emergency hospital visits by 20-35%.
- **Supply Chain & Inventory Management:** AI predicts demand, optimizes inventory, and minimizes supply chain costs by 15-25%.
- **EHR Management & Administrative Automation:** AI reduces documentation time by 40-50% for healthcare providers, allowing them to focus on patient care.

# AI Quick Scan

Risk Matrix | Disclaimer | Global Outlook | Indian Outlook



# AI Quick Scan

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visit us at [www.pathsetter.ai](http://www.pathsetter.ai)

or

say us [hello@pathsetter.ai](mailto:hello@pathsetter.ai)