5 Trends

**Rapidly emerging technologies**

1 GB
By 2020, on average of 1 GB of health-related data will be created daily per person.³

**Aging populations**

2 billion
People in 2050 will be over 60 years old, representing an increase of 10% over today’s aging population.³

**Shortage of healthcare workers**

14 million
Healthcare worker positions will go unfilled in 2030 as the world experiences a global shortage of healthcare workers.⁵

**Growing cybersecurity threats**

$6.2 billion
Is lost due to data breaches to the health industry every year, leading to increased pressure in security and compliance.²

**Increasing patient expectations**

97% of patients have raised expectations around their healthcare, expecting every health institution to have access to their full medical history.⁴
Digital transformation in health

Technology enabled care, health promotion and disease prevention that advances the quadruple aim.

**Better Health**
Improve population health

**Better Care**
Improve the experience of patient care

**Lower Cost**
Reduce the per capita cost of care

**Clinician Well-being**
Improve the clinician & team experience

# AI in healthcare: maturity model

<table>
<thead>
<tr>
<th>Leader</th>
<th><strong>Innovation:</strong> Using SDoH to improve the health of individuals and populations</th>
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<tbody>
<tr>
<td>Advanced</td>
<td><strong>Creation:</strong> New AI solutions, e.g. patient and consumer experience and empowerment</td>
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<tr>
<td>Intermediate</td>
<td><strong>Optimization:</strong> Adding AI to existing systems, e.g. diagnostics, using AI for computer vision, including chronic and rare diseases.</td>
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<tr>
<td>Basic</td>
<td><strong>Conversion:</strong> BI to AI, e.g. LOS, forecasting, reduce readmissions, operations, financial, etc.</td>
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<td>Foundational</td>
<td><strong>Implementation:</strong> Put AI Datalake, Data Estate, or AI data platform in place</td>
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<td><strong>Broad:</strong> Seeking general use cases, solutions, models</td>
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I have come to understand that my primary job is to curate our culture so that one hundred thousand inspired minds—Microsoft's employees—can better shape our future.

Satya Nadella
How do we tackle the challenge?

Enabling digital transformation

Building coalitions for responsible innovation

Closing the skills gap & enhancing employability

Creating sustained societal impact

- Improving health of populations through AI-driven consumer care.
- Partnering with key groups to form and foster lasting and responsible oversight.
- Retraining nurses, physicians and scientists to broaden valuable skill sets.
- Improving access to and quality of healthcare, health literacy, and life expectancy.
I can see every piece of data within two minutes as it goes from the table to the cloud. We can catch things before parents do, because we’re the ones who are medically trained, and that’s the way it should be, to reduce the burden on the parents.

— Lori Erickson
Nurse practitioner, Children’s Mercy Hospital, Kansas City, Missouri
130+ Patients from 12 States

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We love Nurses!

Thank you

Improve outcomes

Enable personalized care

Empower care teams

Healthcare is at the core of Microsoft’s mission

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