

# Use of Data Analytics and AI in the Indian Healthcare

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# Will Data, Analytics & AI Be Useful in Indian Healthcare?



# The Economics of Indian Healthcare

# Why This Paradox Exists

Despite significant medical capabilities, Indian healthcare faces persistent structural challenges that limit its effectiveness and reach.

## Access

Geographic barriers prevent millions from reaching quality healthcare, particularly in rural areas where infrastructure is limited.

## Affordability

Cost remains the primary barrier, with treatment expenses pushing families into poverty despite available medical expertise.

## Trust

Patient confidence varies significantly across providers, affecting treatment adherence and health-seeking behaviour.

## Weak Primary Care

An underdeveloped GP network fails to provide the preventive foundation needed for sustainable healthcare delivery.

# Who will pay for Data Analytics & AI in Indian Healthcare?

- High out of pocket spend
- Low Insurance Penetration ~3.7% Premiums to GDP ratio
- Private Healthcare 10–15x as expensive as public healthcare
- Overall healthcare spend as a % of GDP is ~3.5% compared to ~11% UK and ~17% US

## Is Data Analytics & AI an expensive gamble?

# Analytics Is a Journey, Not a Project



Successful analytics implementation requires sustained commitment, cross-functional expertise, and clear strategic alignment across the organisation.

## Essential Requirements

1

### Clear Purpose

Define specific problems to solve and stakeholders to serve with measurable objectives.

2

### Success Metrics

Establish quantifiable indicators that demonstrate progress and value creation

3

### ROI Pathway

Map the route from investment to tangible financial and operational returns.



# Analytics ≠ A few Dashboards

## The Analytics Maturity Roadmap

De-coupled Data  
Intelligence Layer

Data Lake

Continuous Master  
Data Clean-up

Unified Data –  
Integration Pipelines

Re-usable Semantic  
Layer

Robust Data  
Governance

Level 1 – KPI Monitors  
and analyzers

Level 2 – Purpose Built  
Analytics

Analytics & AI Delivery  
Mechanisms



# Key Attributes of the Data & AI Program



## Democratize

Democratise analytics across all levels, ensuring every team member can access and understand data relevant to their role.



## Institutionalize

Embed data-driven decision-making into daily workflows, policies, and strategic planning processes.



## Measure

Develop rigorous methods to baseline current performance and quantify improvements from analytics initiatives.



# Is there real ROI to be tapped in Analytics & AI in Indian Healthcare?

# The Data Intelligence Value Unlock

Strategic analytics deployment creates measurable improvements across every dimension of healthcare delivery, transforming operations from reactive to predictive.



Operations Intelligence



Revenue Intelligence



Clinical Intelligence



Supply Chain Intelligence



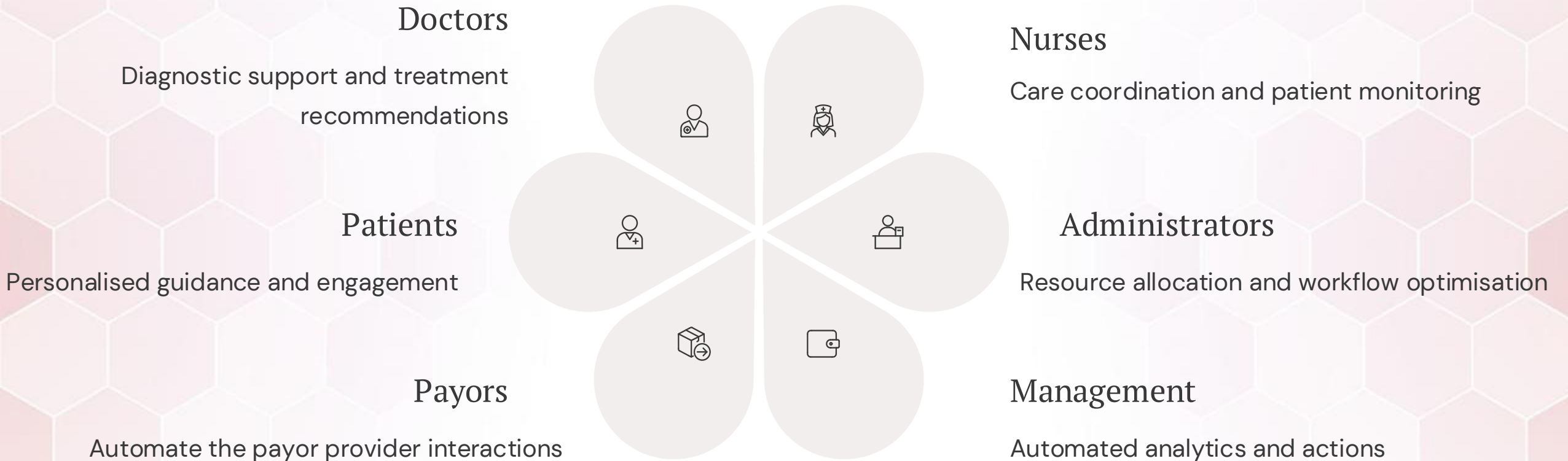
Workforce Intelligence



Finance Intelligence

# AI Co-Pilots Across the Health System

The future of healthcare lies in intelligent assistance—AI co-pilots that augment human expertise, reduce cognitive burden, and enable better decisions at every touchpoint.



Thank you