

Artificial Intelligence in Healthcare

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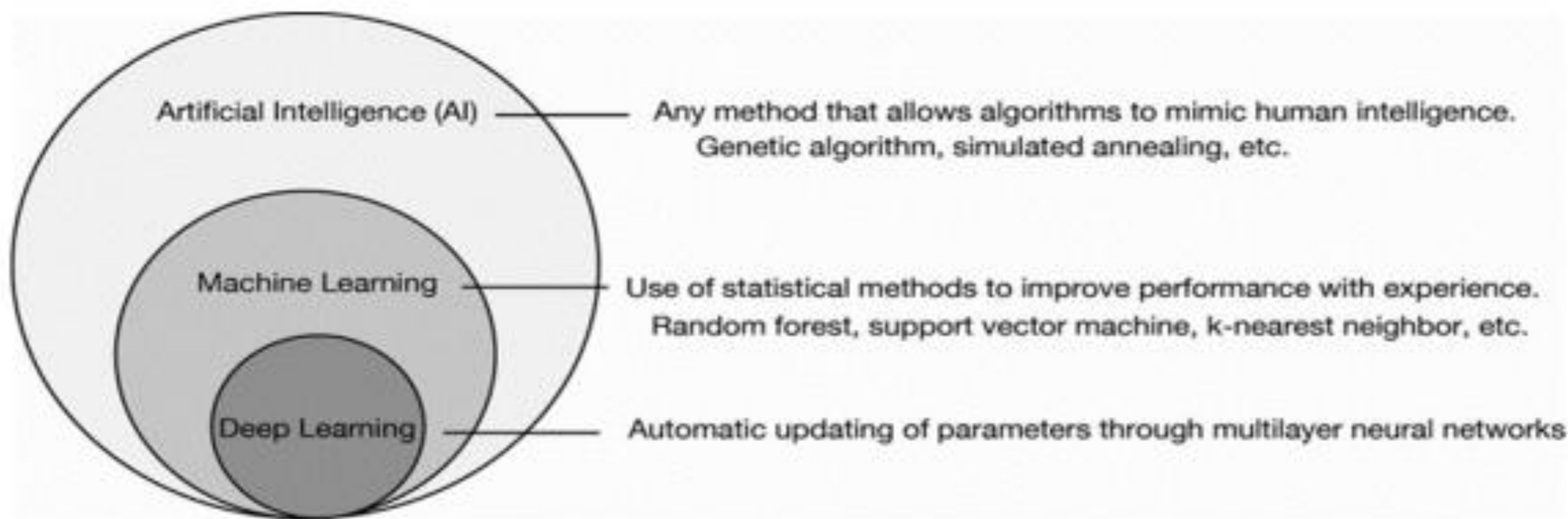
مَا أُنْزِلَ اللَّهُ دَاءً إِلَّا أُنْزِلَ لَهُ شِفَاءٌ

Allah has not sent down any disease except that He has also sent down the cure for it.



INTRODUCTION

Artificial intelligence (AI) is a field of research in which computers are applied to mimic human intelligence.



INTRODUCTION

WHAT IS ARTIFICIAL INTELLIGENCE?

Machine Learning

Using sample data to train computer programs to recognize patterns based on algorithms.



Neural Networks

Computer systems designed to imitate the neurons in a brain.



Natural Language Processing

The ability to understand speech, as well as understand and analyze documents.



Robotics

Machines that can assist people without actual human involvement.



LEVELS OF AI

Artificial narrow intelligence

Reactive machines

Automated responses for a limited number of parameters



Limited memory

Can learn and make decisions based on previous data



Artificial general intelligence

Theory of Mind

Comprehend needs, emotions, beliefs, and thoughts



Self-aware

Development comparable to the human brain, achieving self-awareness



Artificial super intelligence

Super human capabilities

Improved data analysis, memorizing, and decision-making, surpassing humans in all tasks



Level I
(simple AI)

Level II
(advanced AI)

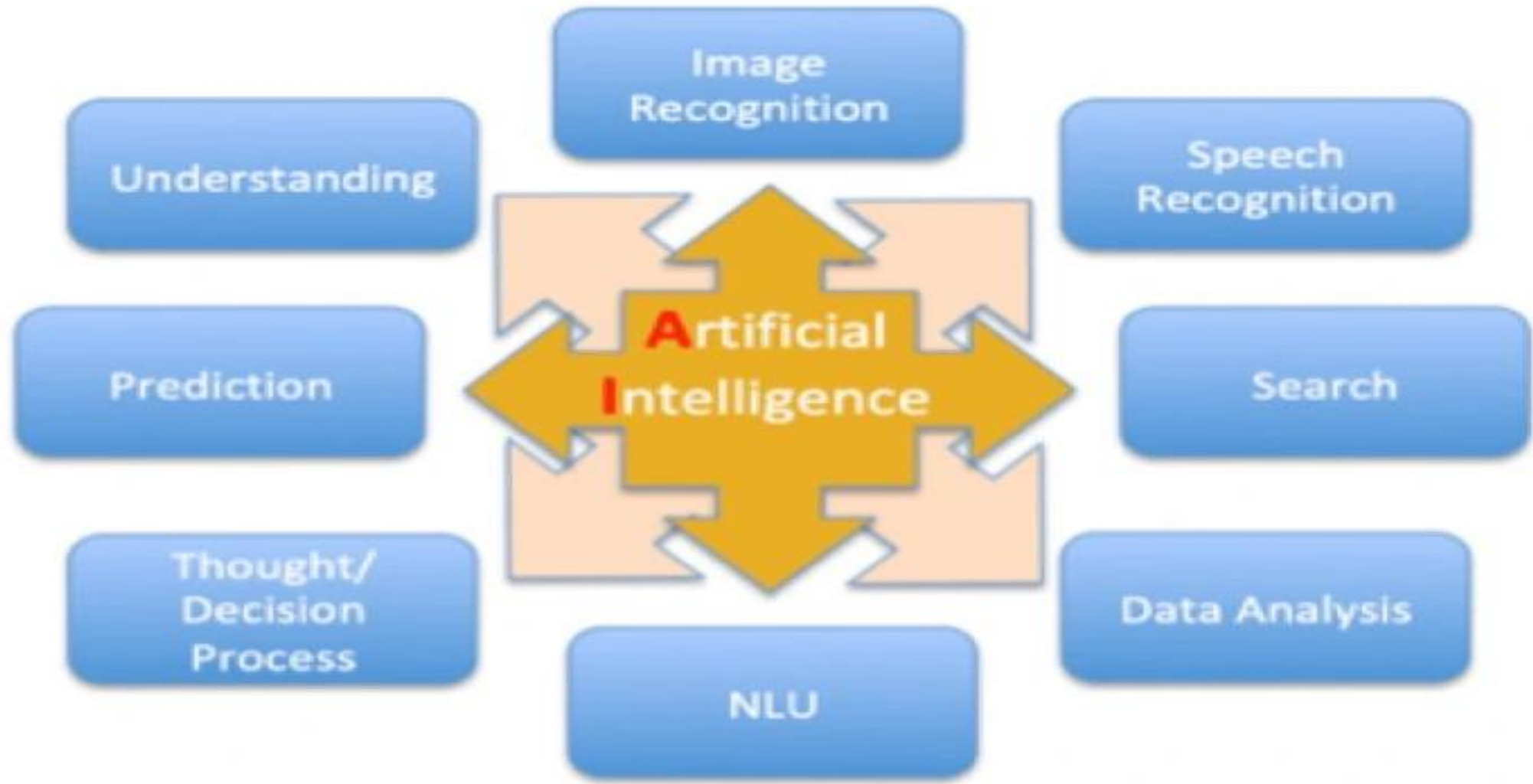
Level III

Level IV

Level V

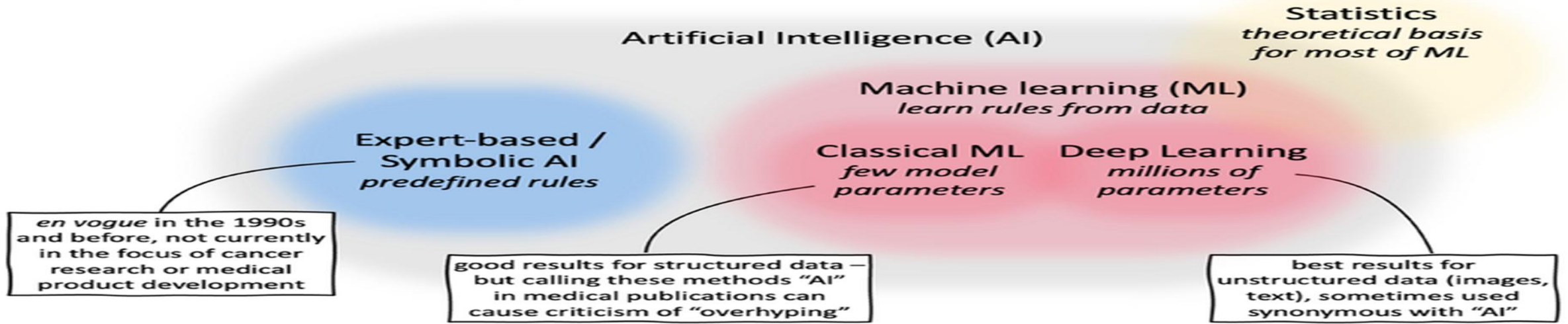


HOW AI WORKS

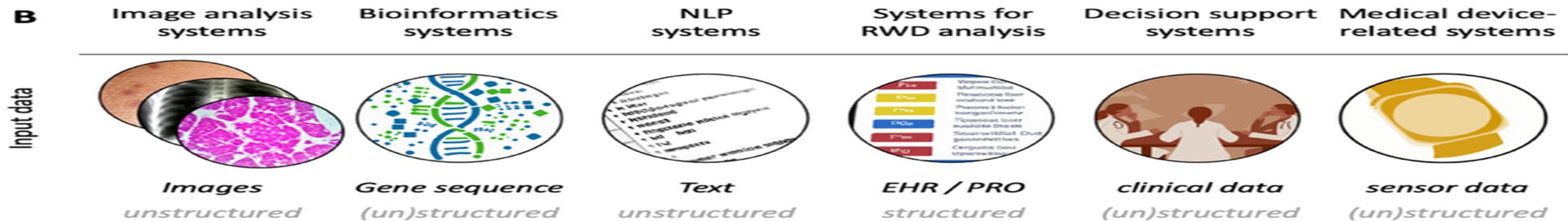


APPLICATION OF AI

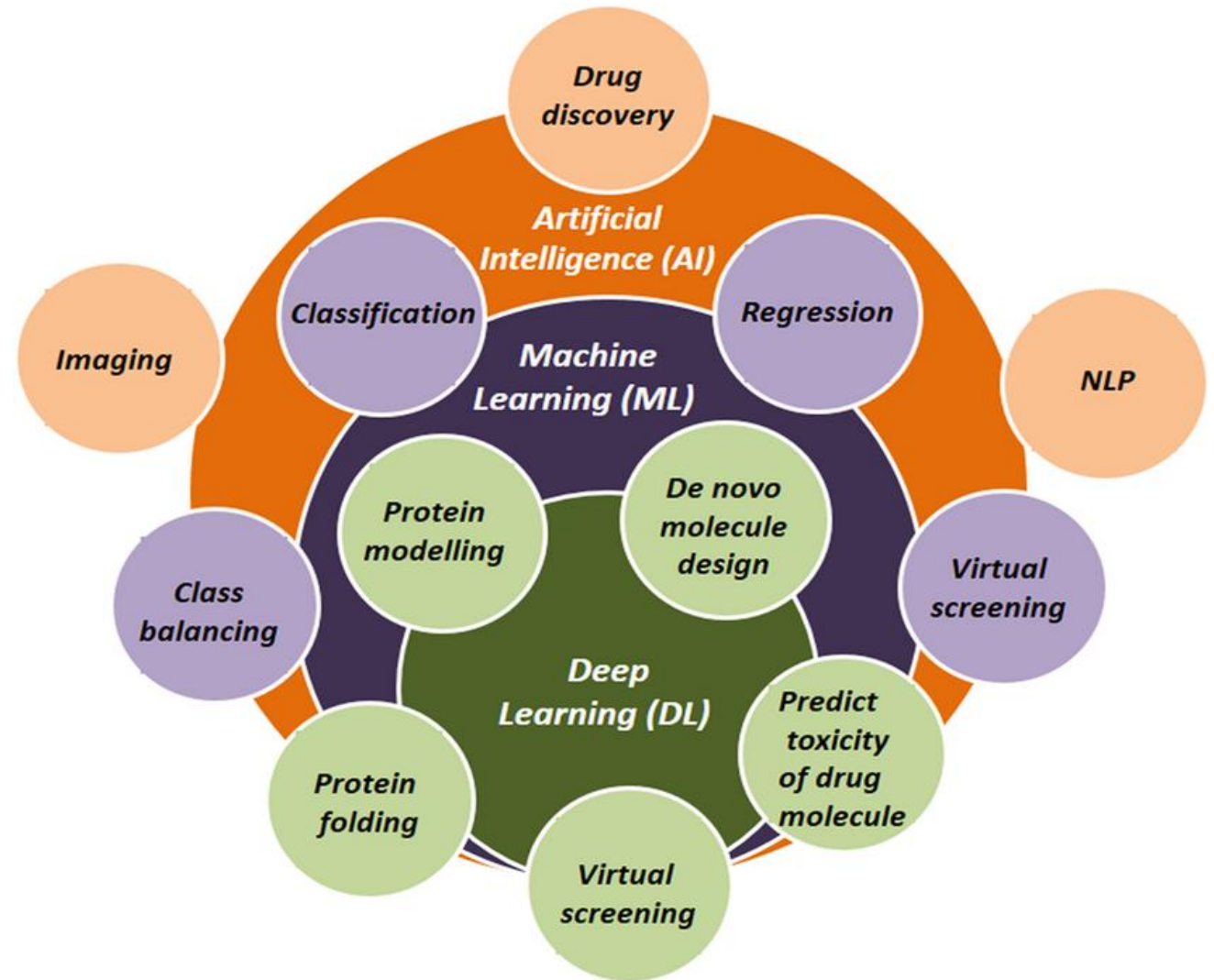
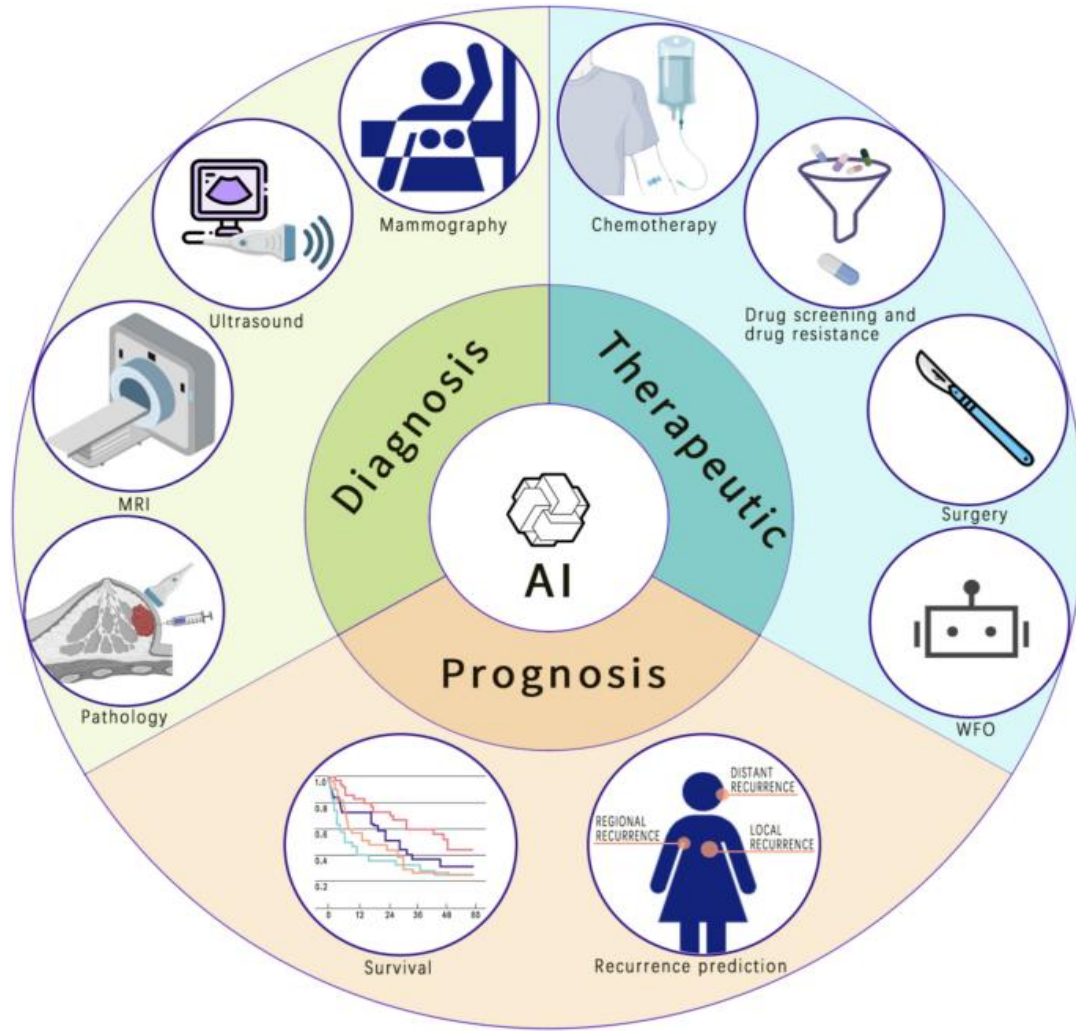
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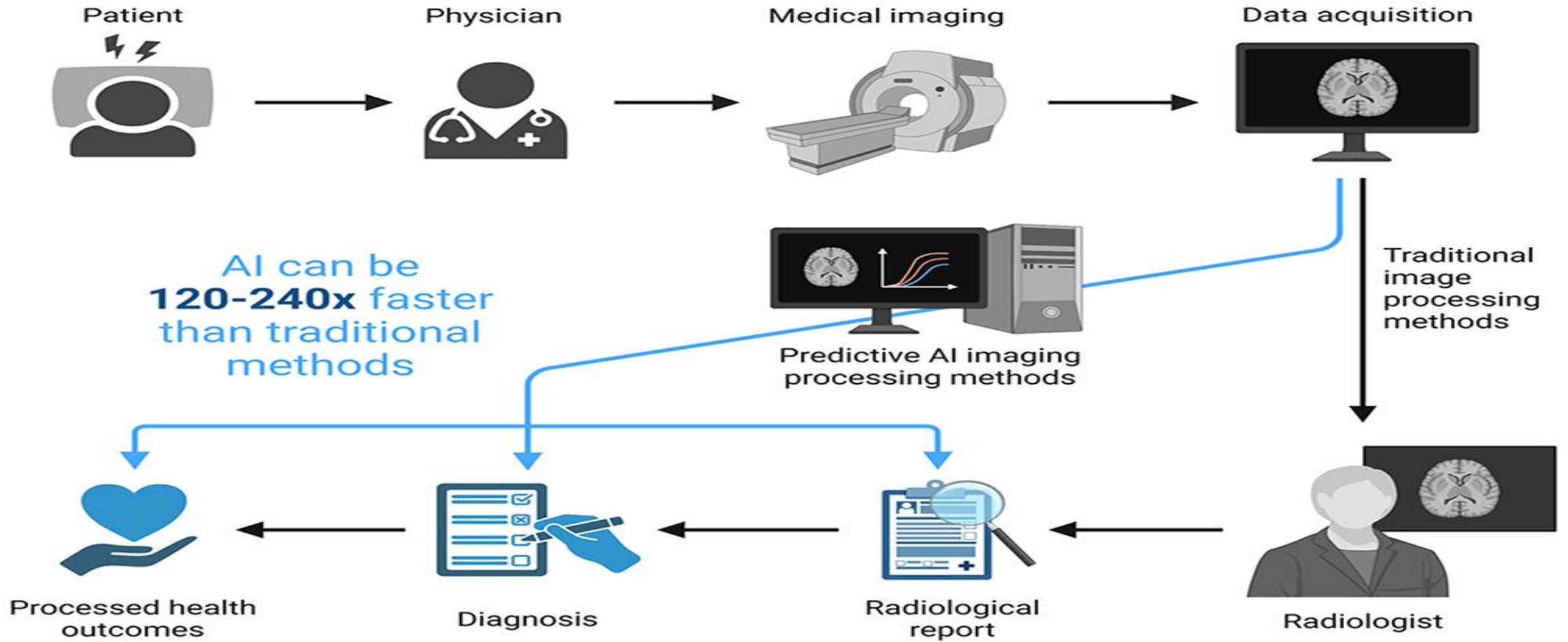
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APPLICATION OF AI



APPLICATION OF AI



APPLICATION OF AI



Predictive Analytics

Using AI-algorithms to analyze medical data and predict patient outcomes



Medical Image Analysis

Enhancing the interpretation of medical images, such as X-rays and MRIs



Clinical Decision Support

Assisting healthcare professionals with AI-driven diagnostic and treatment recommendations



Patient Monitoring

Utilizing AI to continuously monitor patients' vital signs and detect anomalies



Personalized Treatment

Tailoring treatment plans to individual patients based on AI analysis of genetic and clinical data



Natural Language Processing

Extracting and understanding information from clinical notes and patient interactions



Virtual Health Assistants

Providing AI-powered chatbots and virtual assistants to support patients and providers

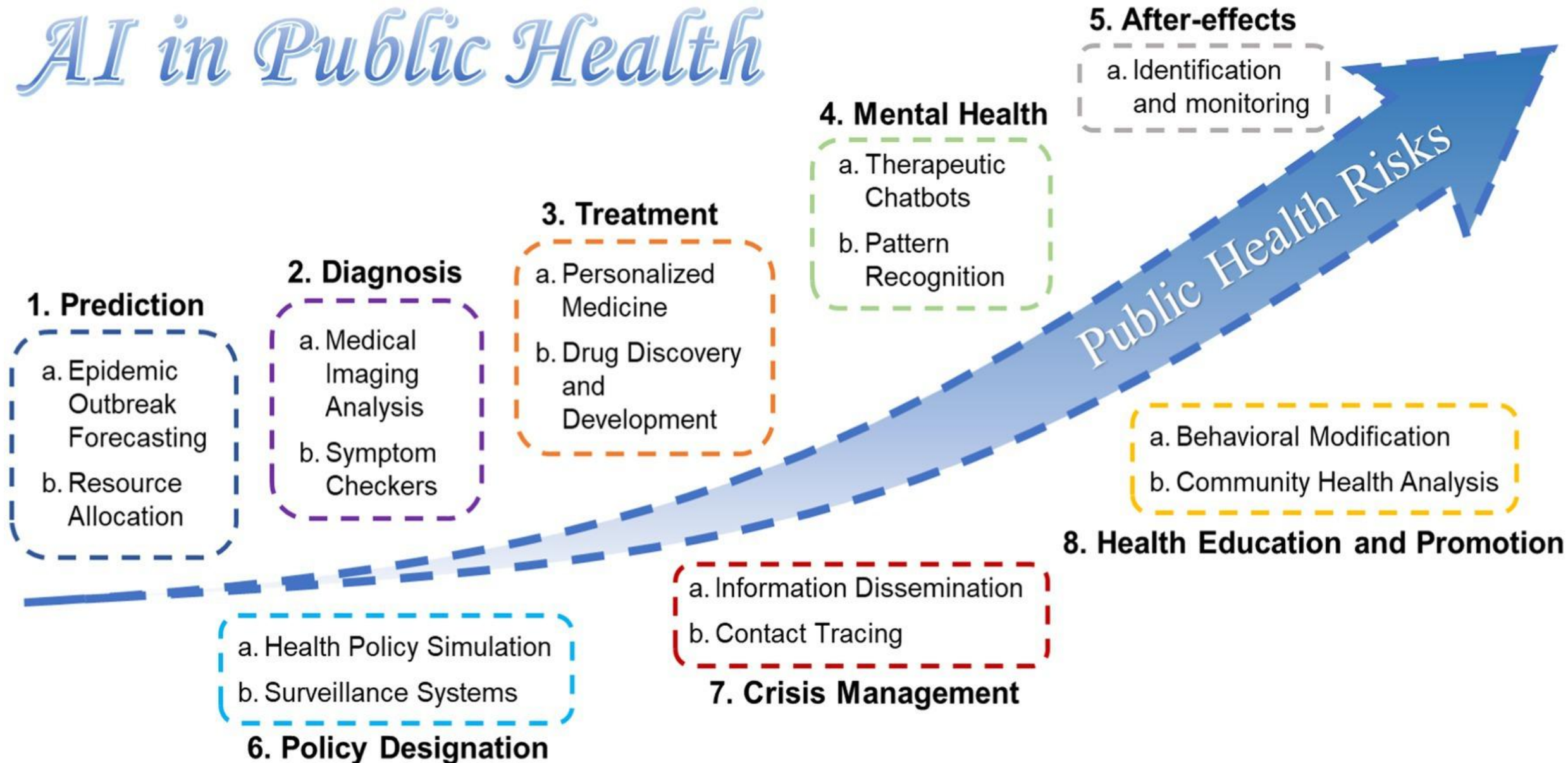


Operational Efficiency

Improving administrative tasks like scheduling, billing, and resource management



AI in Public Health



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*Thank
you*



I appreciate your comments and queries

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