AI

Artificial Intelligence

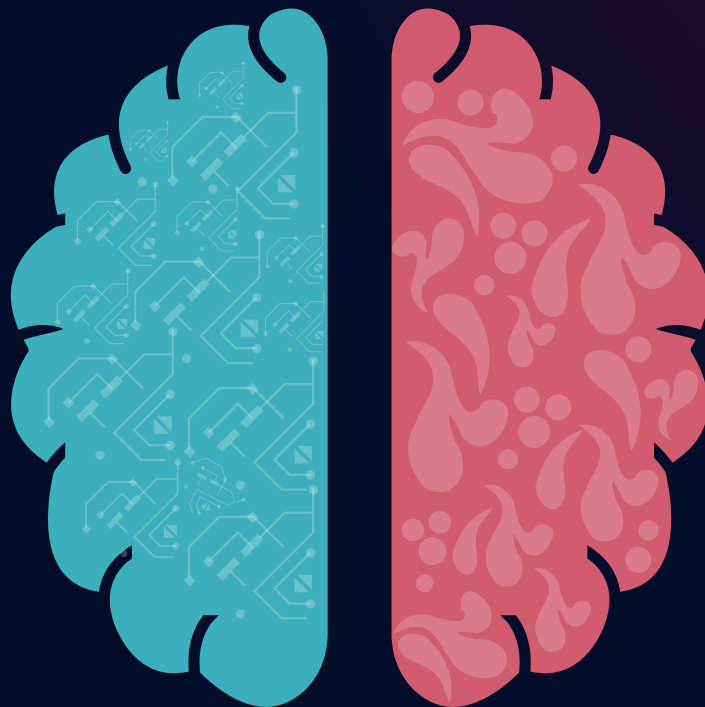# Part I:
Artificial Intelligence

Types of Artificial Intelligence

There are primarily two categories of AI depending on functionality and capabilities:
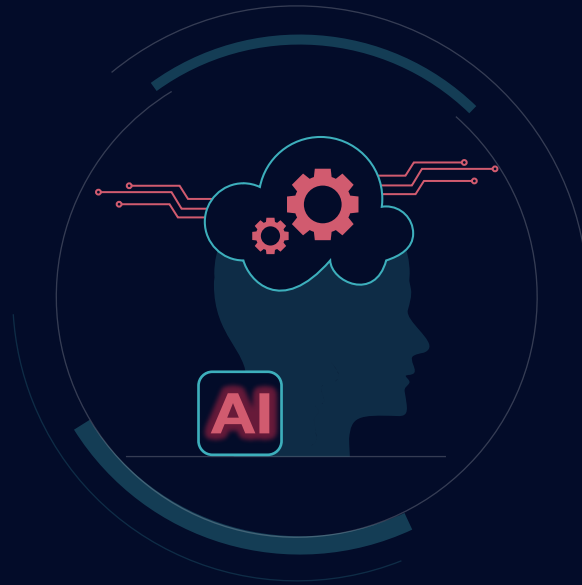
Based on Functionality

Based on Capabilities

It is helpful for us to see the differences in AI so our decisions on how to use it are aligned with the outcomes we seek.
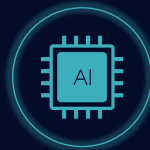
Types of Artificial Intelligence

Based on Functionality

1 — Limited Theory

Reactive Machine — 2

3 — Theory of Mind

Self- Aware AI — 4

REACTIVE MACHINE

This sort of AI has no memory and are task specific. They react to data, such as purchase history and delivers recommendations. Netflix is an example of Reactive Machine AI. Google is also a Reactive AI

LIMITED THEORY

This sort of AI has memory capabilities allowing it to use information and experience to make judgements. It stores training data as a reference model.
Self Driving cars are an example of Limited Theory AI

THEORY of MIND

ToM AI is able to discern the needs, emotions, beliefs and thinking of other individuals. Thereis some research that suggests that large language models like GPT-4 may be developing some ToM capabilities. For example, one study showed that GPT-4 was able to pass a simplified version of the Sally-Anne psychology test. Sam Altman, CEO of Open AI, claims Open AI is a large language Reactive Machine.

Self-aware

Its existence is speculative and can only be discovered in science fiction films. These kinds of AI can comprehend and elicit human emotions and feelings. These types of AI could be decades away from becoming a reality.
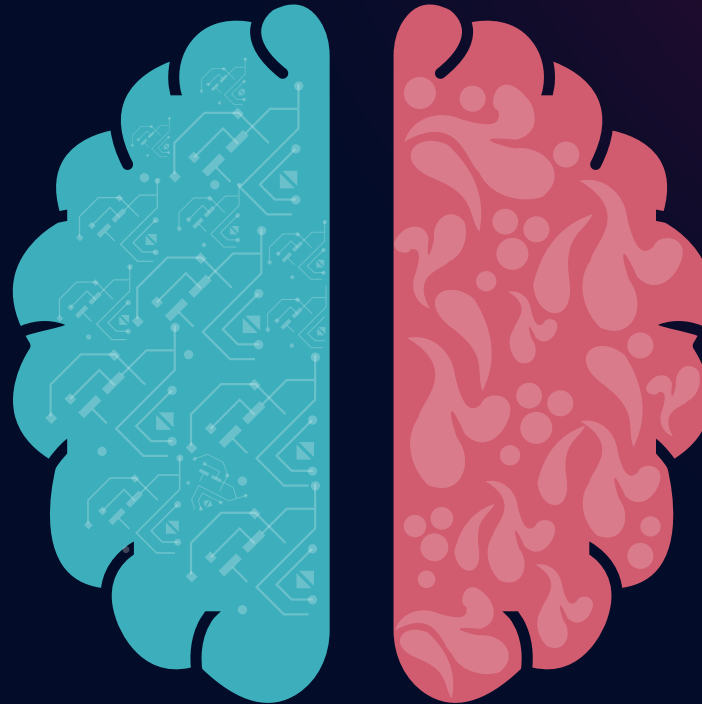
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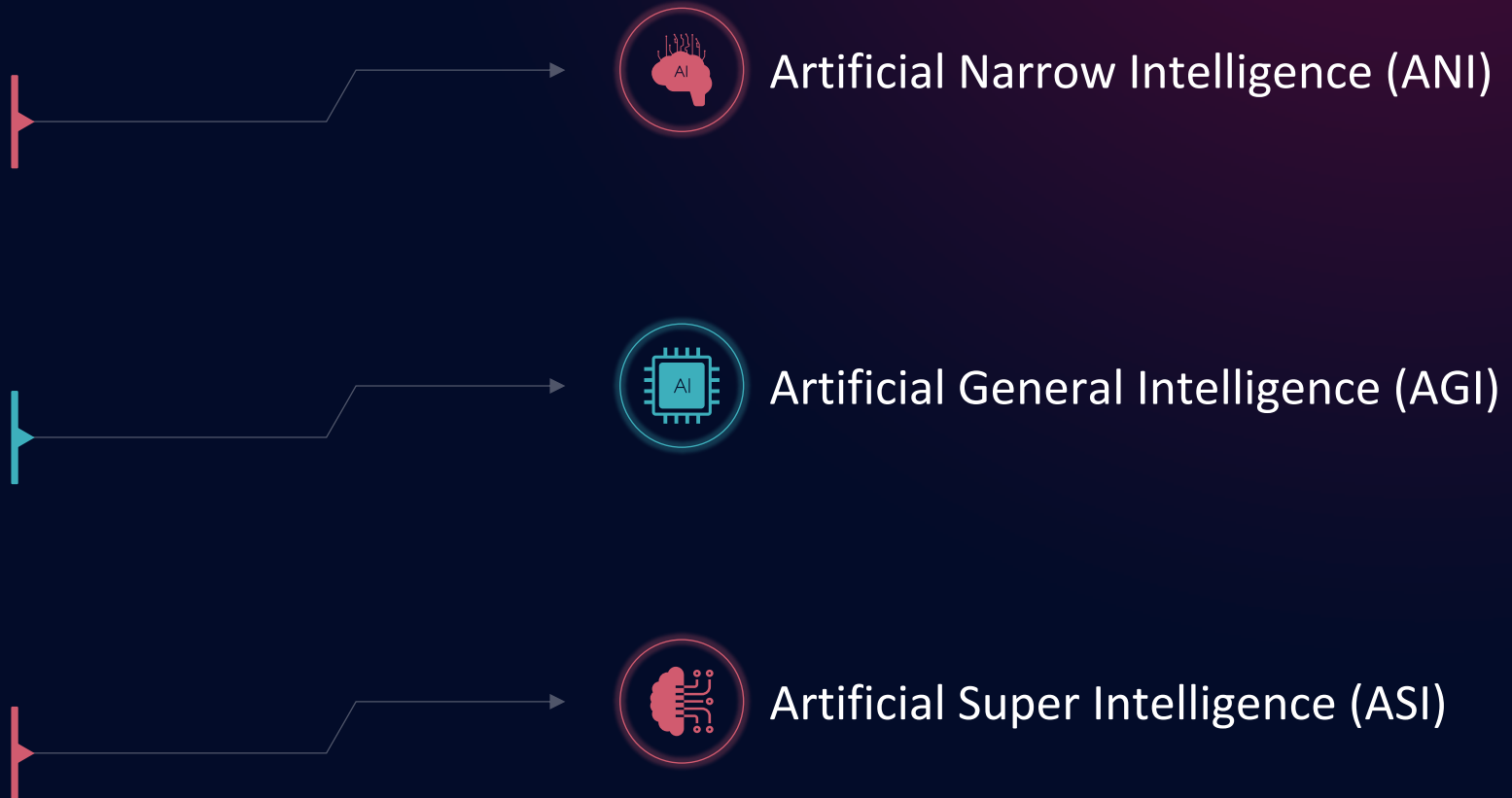
Based on Functionality

Based on Capabilities

Types of Artificial Intelligence

Based on Capabilities

Artificial Narrow Intelligence (ANI)

Artificial General Intelligence (AGI)

Artificial Super Intelligence (ASI)

This category includes all of the existing AI applications we see around us. ANI encompasses an AI system that, like humans, can execute specified particular activities. However, because these robots cannot complete jobs for which they were not previously designed, they fail to perform an 'unprecedented task'.

Capabilities-based Artificial Intelligence Types: Artificial General Intelligence (AGI)

AGI can train, learn, understand, and perform functions in the same way as humans do. These systems will have multi-functional capabilities that span disciplines. These systems will be more agile, responsive and improvising like people in the face of unforeseen events. Although there are no real-world examples of this type of AI, significant progress has been achieved to actualize such AI.

Capabilities-based Artificial Intelligence Types: Artificial Super Intelligence (ASI)

The pinnacle of AI progress will be Artificial Super Intelligence (ASI). It will be the most powerful kind of intelligence ever to exist on Earth. Its far-improved data processing, memory, and decision-making abilities will mean that it will be better than humans in all tasks. Some experts are concerned that the introduction of ASI will lead to "Technological Singularity." It is a speculative scenario in which technological advancement reaches an uncontrollable point, leading to unimaginable changes in human civilization.
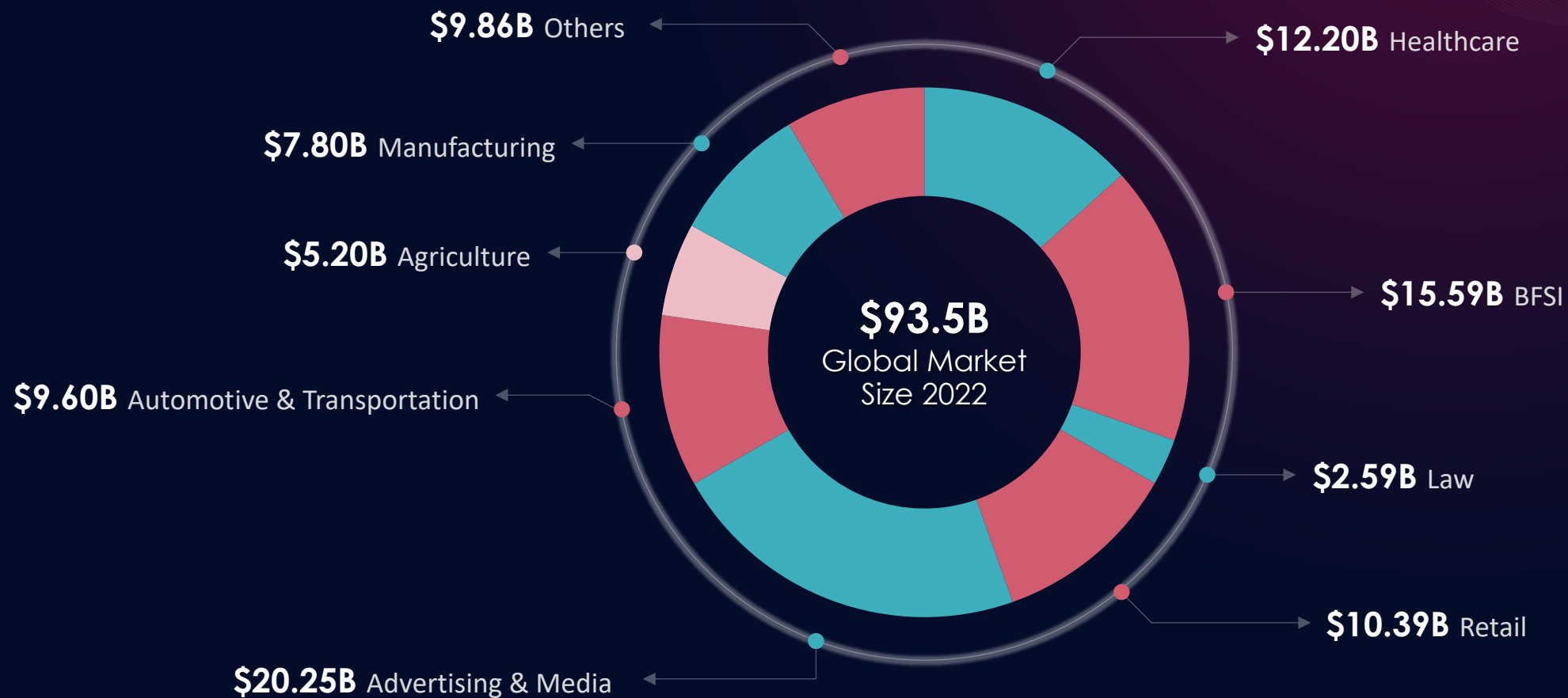
Part II:
Application of Artificial Intelligence
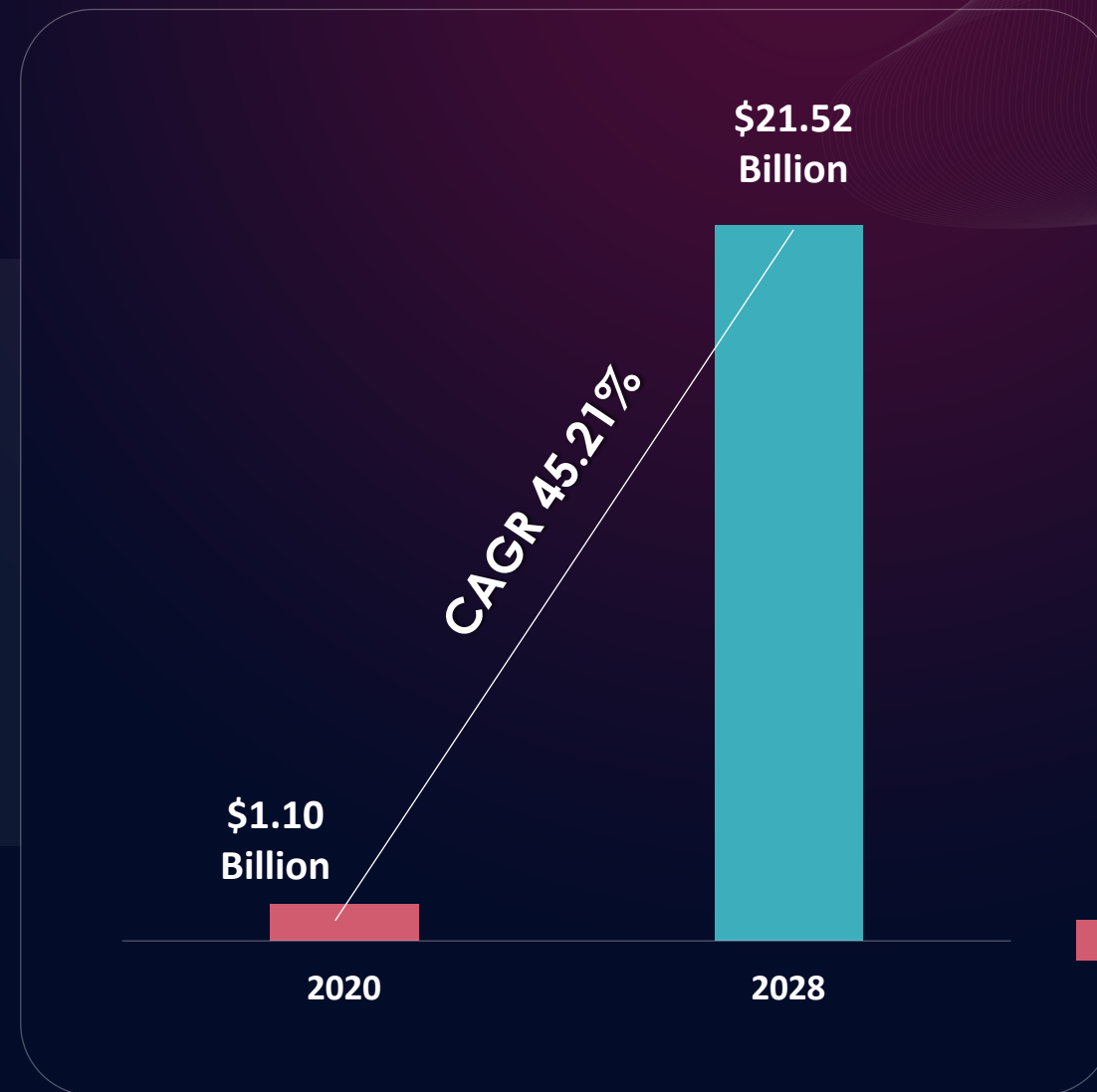
Artificial Intelligence Industry Statistics

Share, by end use, 2022(%)

$9.86B Others

$7.80B Manufacturing

$5.20B Agriculture

$9.60B Automotive & Transportation

$20.25B Advertising & Media

$93.5B
Global Market
Size 2022

$12.20B Healthcare

$15.59B BFSI

$2.59B Law

$10.39B Retail

Artificial Intelligence in Education Sector

Global
AI in Education Market
2021-2028

$21.52
Billion

CAGR 45.21%

$1.10
Billion

2020   2028

Role of Artificial Intelligence in the Education Sector

Personalized Learning

Universal Access for all students

Constructive Feedback
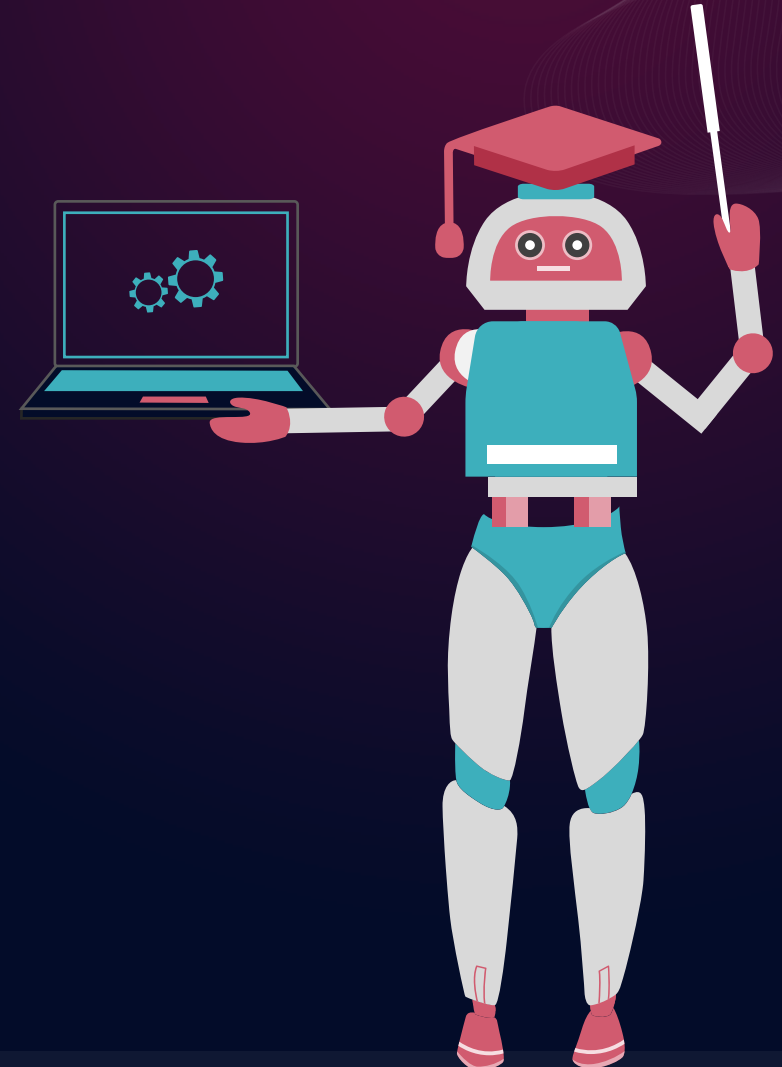
Artificial Intelligence Use Cases in Education

How AI is used in

Education
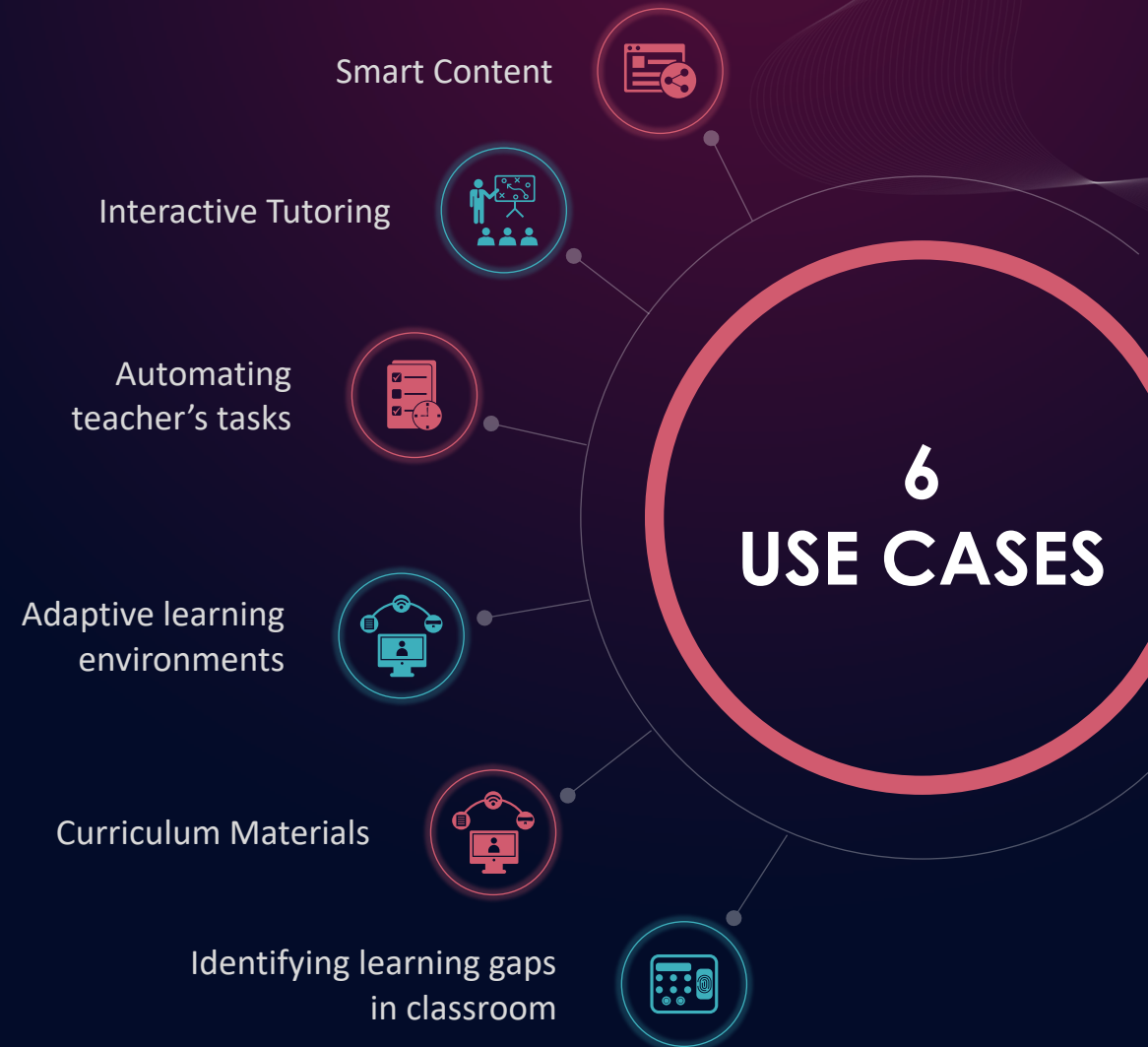
$6 Billion
Estimated total market value of AI in education by 2024

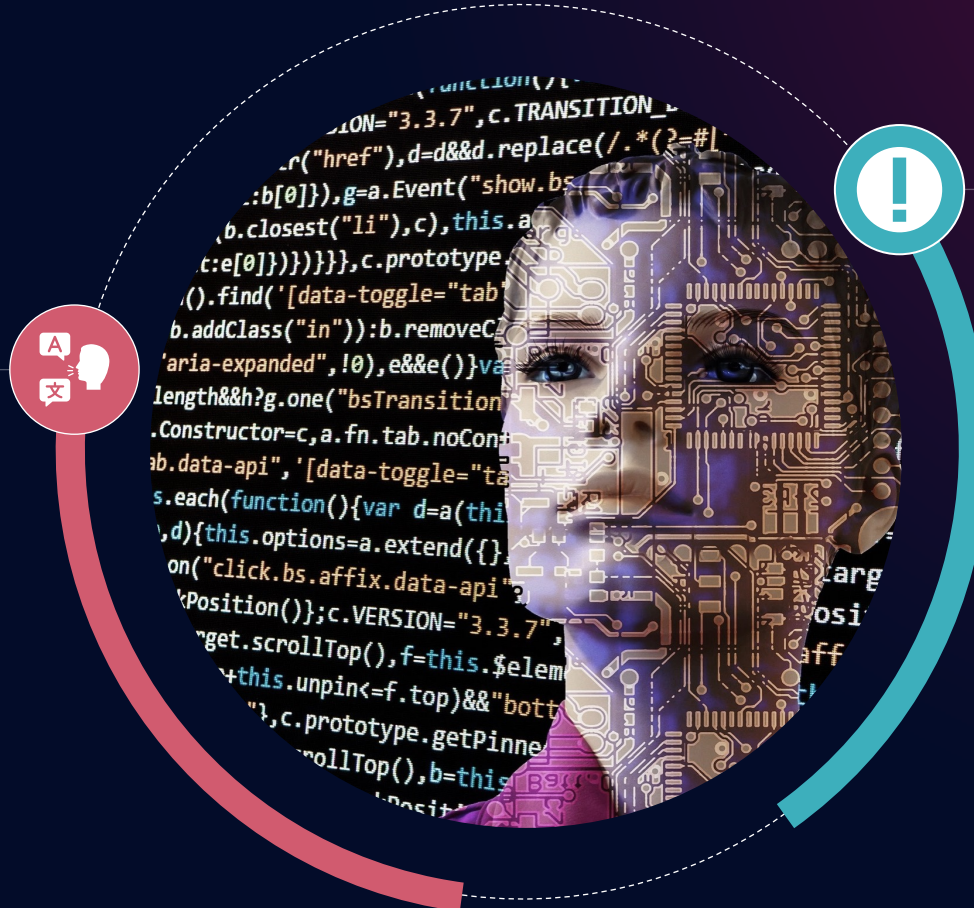**$120.6 Billion**
Project K-12 online tutoring market by 2021

Smart Content

Interactive Tutoring

Automating teacher's tasks

Adaptive learning environments

Curriculum Materials

Identifying learning gaps in classroom

6 USE CASES

Session III:
AI for you. Start using it.

AI Administrative Support

Tasks
Teacher Evaluations
Communication to Public
Speeches
Staff Appreciation

Prompt
"Write an evaluation for a teacher who scores above average in her attention to students but needs more development in her time management skills"

Summary

AI is already here and isn't going away.

The best way to learn about AI is to use it yourself. It can provide up to 40% of administrative support tasks.

There is some speculation that Google will replace their search engine
with Bard. And other speculation that not doing so would mean tools like Open AI could replace Google.
Students will have access to this technology.

The tech industry is going to invest in your sector. This hasn't happened until now. Having a point of view and strategy for using this technology will be important. It has the potential to provide a greater experience for educators and children alike.

Thank you