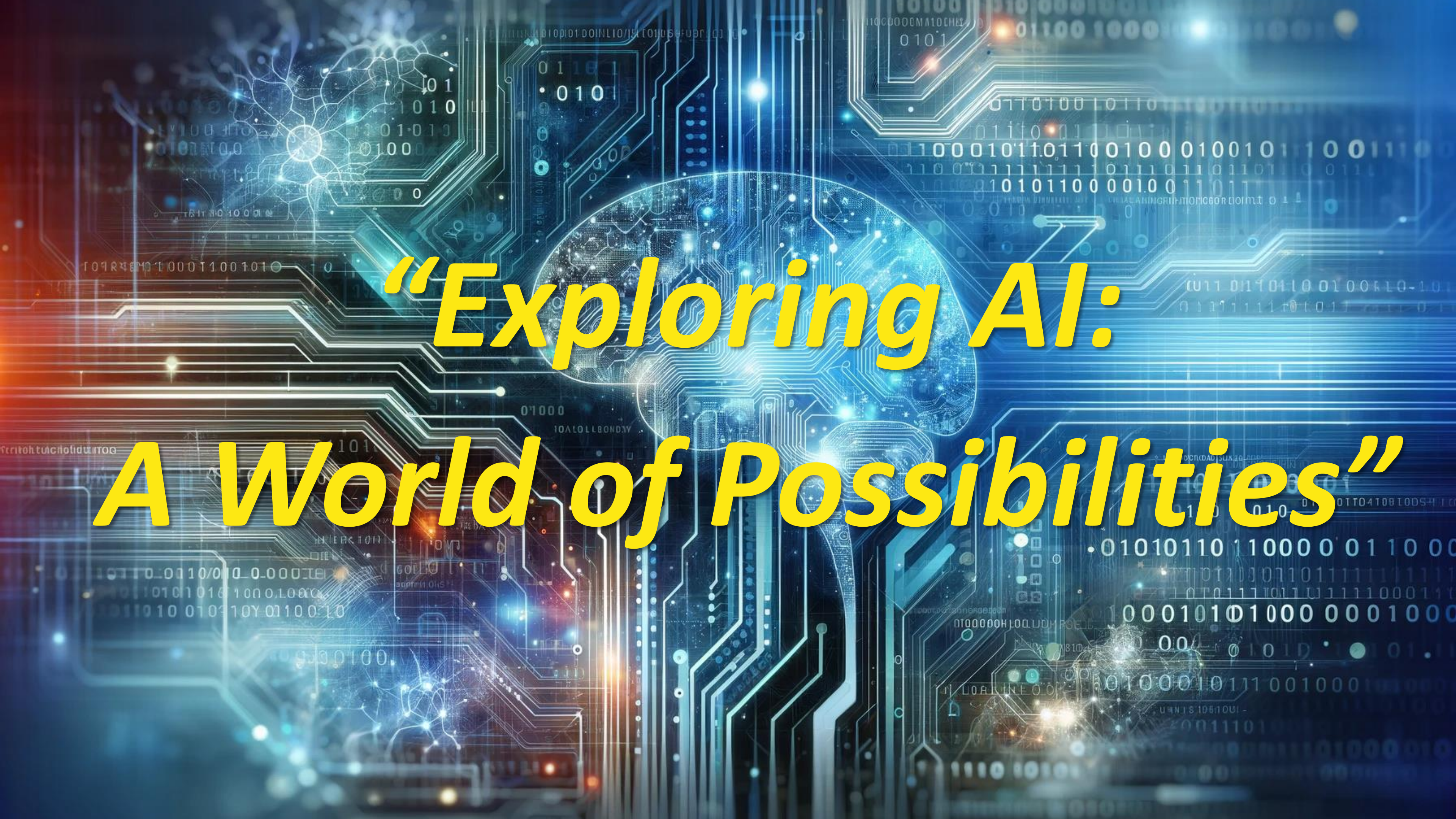




EXPERTS IN EDUCATIONAL PUBLISHING, ASSESSMENT
AND PROFESSIONAL DEVELOPMENT



***“Exploring AI:
A World of Possibilities”***

Introducing your Presenter



Sean O' Brien
B.Ed, PgDp.

Bachelors of Education and a Postgraduate Diploma in Special and Additional Learning Needs.

My diverse career has seen me undertake roles as a Teacher, Curriculum Specialist, and leading roles in Framework Development, Teacher Training and Assessment Development. Dedicated to advancing Inclusive Education and Special Education Needs (SEN), I also have a keen interest in the integration of Artificial Intelligence in educational practices.

Join at menti.com

Use Code

7278 4564

Starter Activity

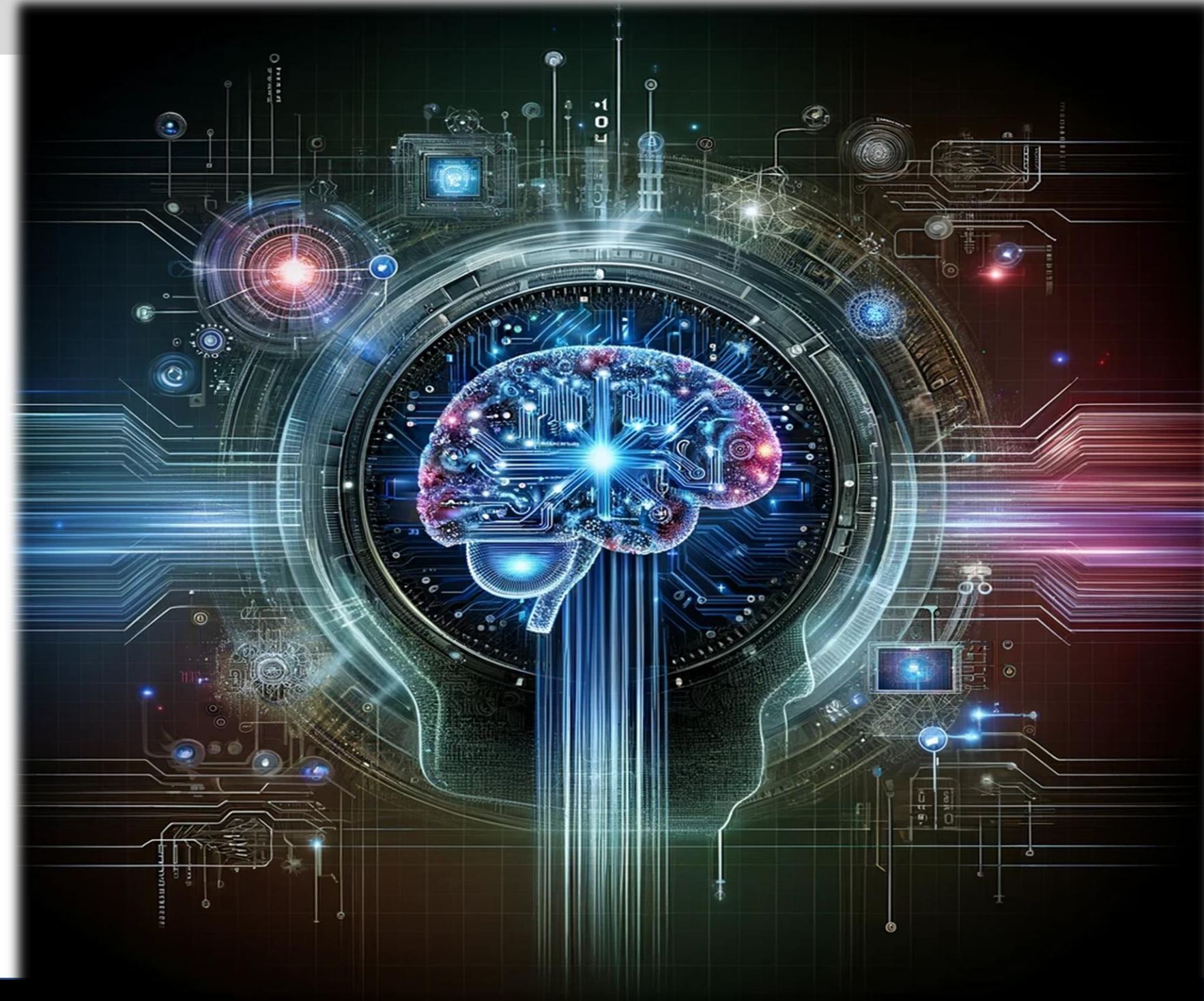
Can you identify different subsets/domains of Artificial Intelligence?



Or scan QR code

Introduction to Artificial Intelligence

Artificial Intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think and learn like humans.



Introduction to Artificial Intelligence

The aim of AI is to allow machines to perform tasks that normally require human intelligence.

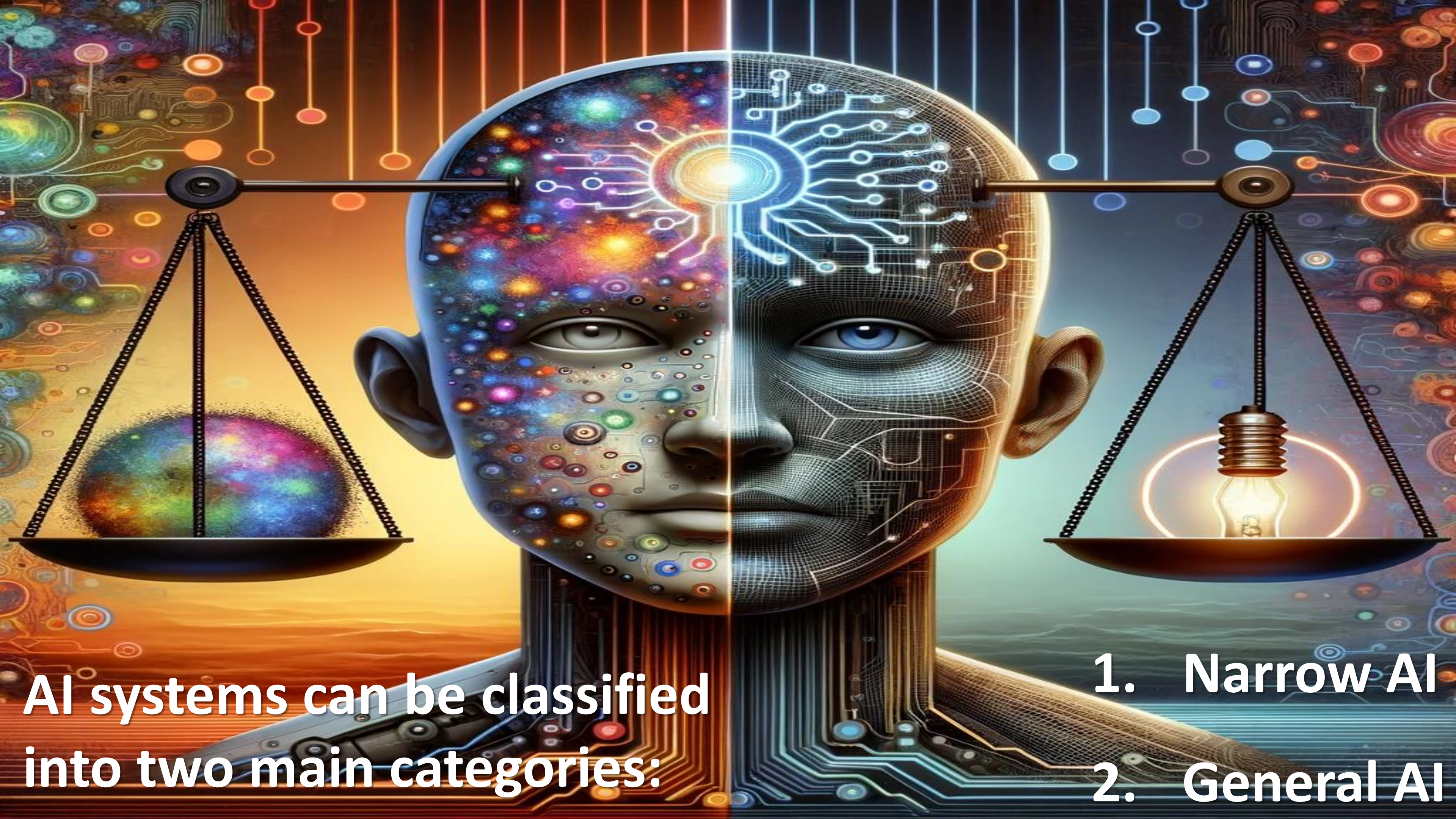
For example:

- **recognising speech**
- **making decisions**
- **solving problems**



A medium shot of Satya Nadella, CEO of Microsoft, speaking. He is bald, wearing glasses, and a dark blue polo shirt. He is positioned in front of a dark wood bookshelf filled with books, framed photos, and decorative items. His hands are clasped in front of him.

<https://youtu.be/Ok-xpKjKp2g>



AI systems can be classified into two main categories:

- 1. Narrow AI**
- 2. General AI**

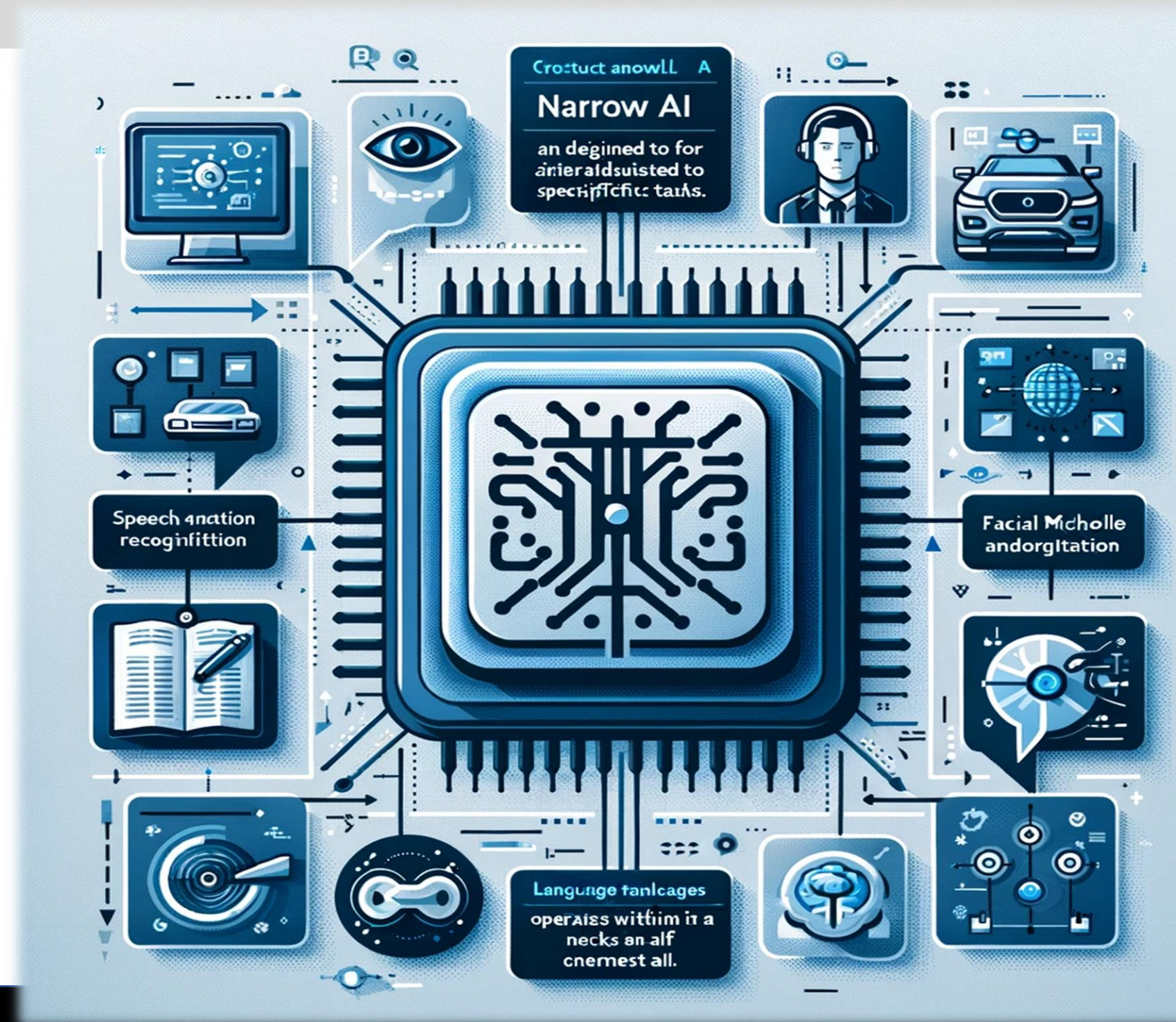
Introduction to Artificial Intelligence

Narrow AI:

This type involves AI systems designed and trained for a specific task.

Virtual assistants like Siri and Alexa, and recommendation systems used by Netflix and Amazon, are examples of Narrow AI.

These systems operate under a limited pre-defined range or set of contexts and don't possess general intelligence or consciousness.

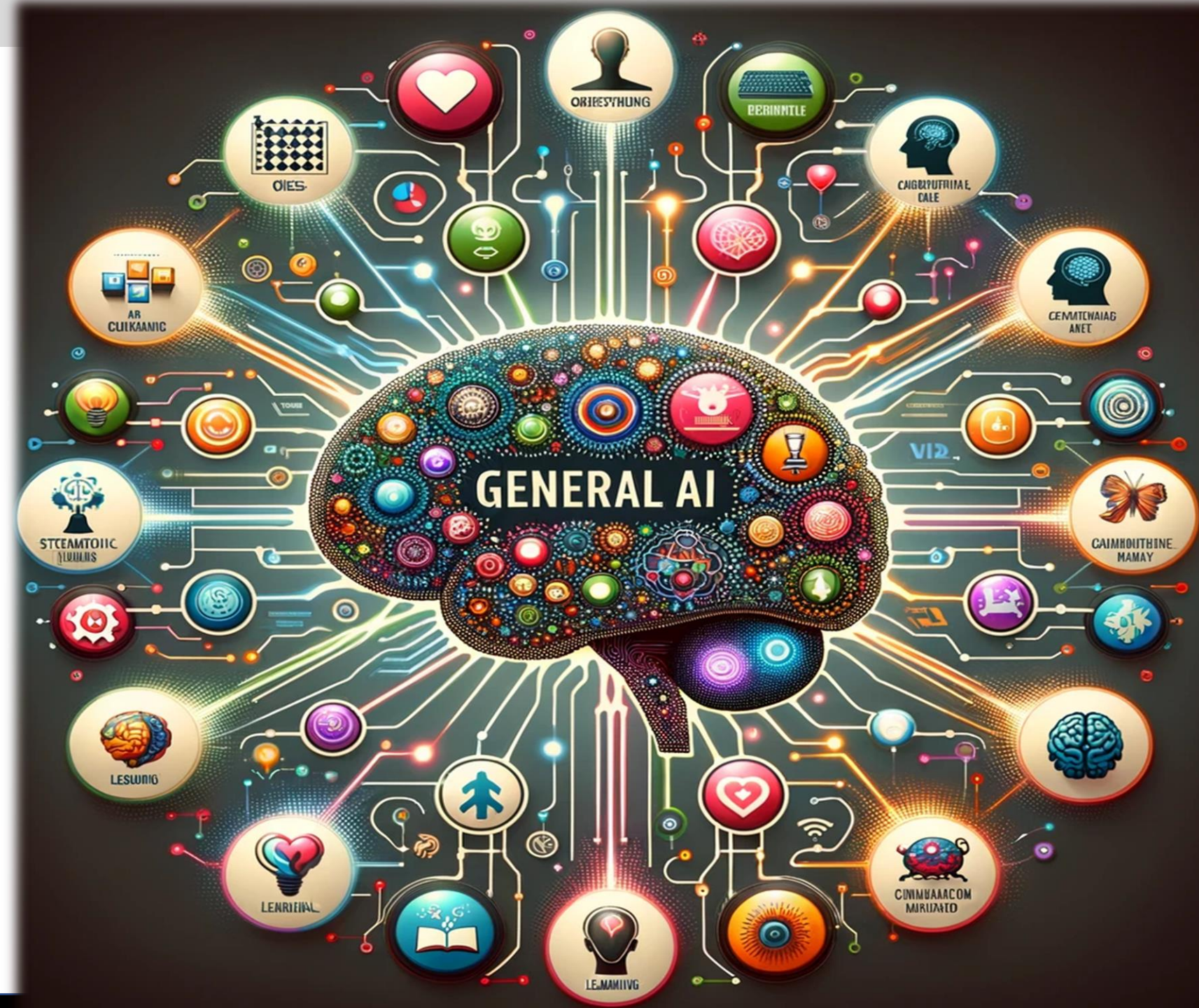


Introduction to Artificial Intelligence

General AI:

This is a theoretical form of AI where machines would possess the ability to understand, learn, and apply knowledge in different contexts, similar to human intelligence.

General AI would have the capacity for reasoning, problem-solving, and creativity across a wide range of domains, not limited to tasks it was specifically programmed for.



AI Training Activity

Scan the QR code or type the URL into your browser to complete the AI training activity

Access via link:

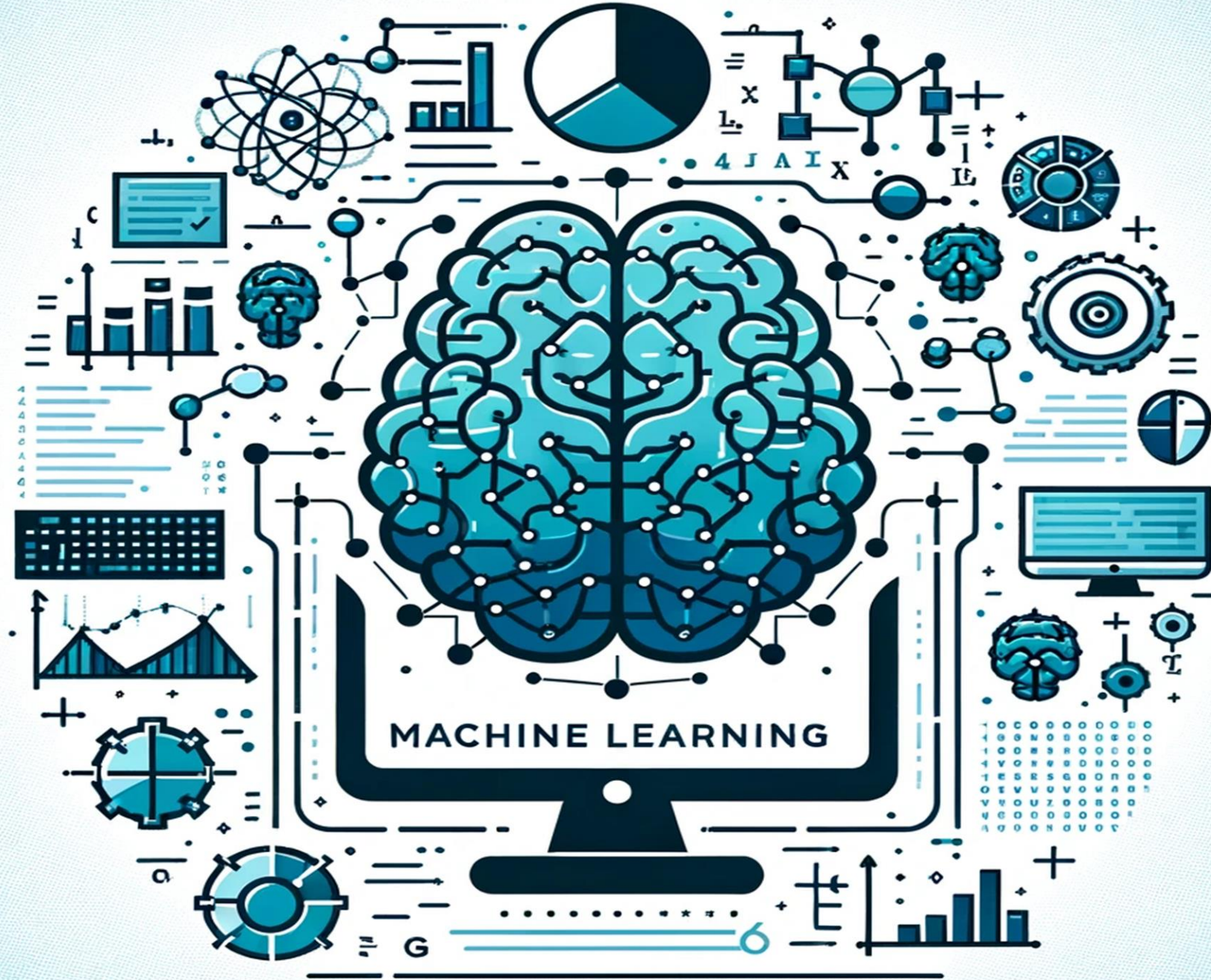
<https://shorturl.at/ejMUV>



Or scan QR code

<https://youtu.be/KHbwOetbmbS>

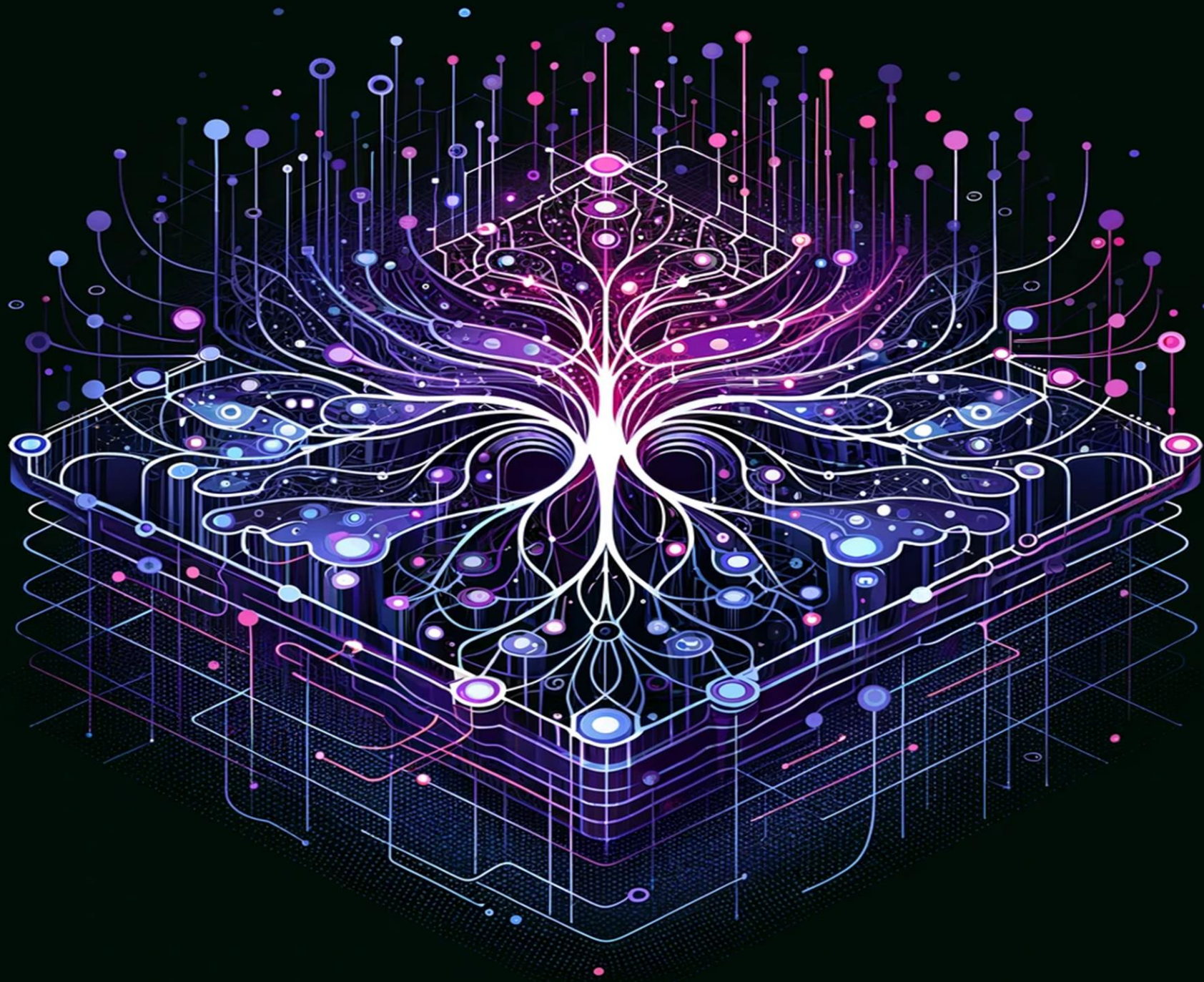
Understanding AI Basics



Important subsets of AI:

- Machine Learning (ML)

Understanding AI Basics



Important subsets of AI:

- Machine Learning (ML)
- Deep Learning

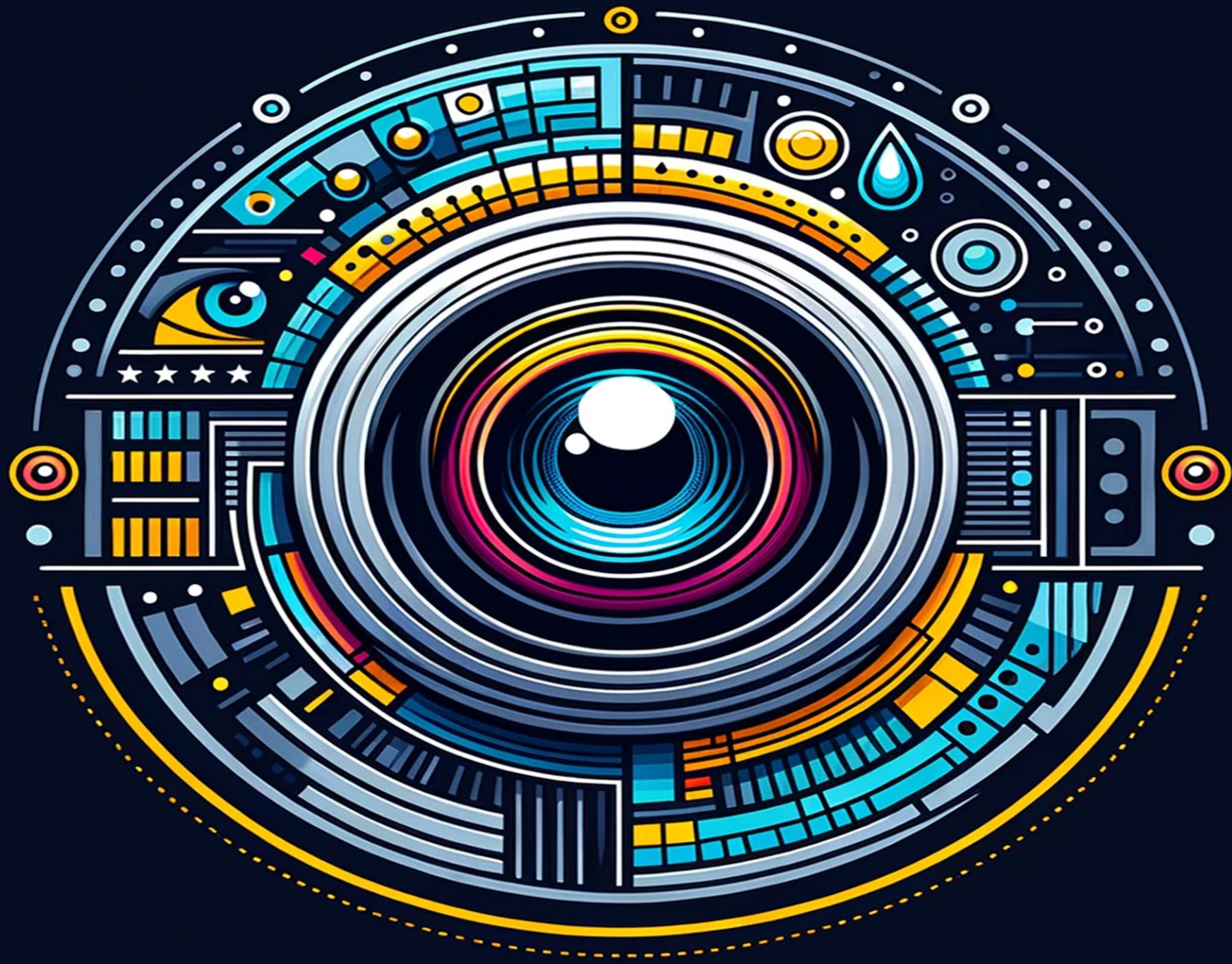
Understanding AI Basics



Important subsets of AI:

- Machine Learning (ML)
- Deep Learning
- Natural Language Processing (NLP)

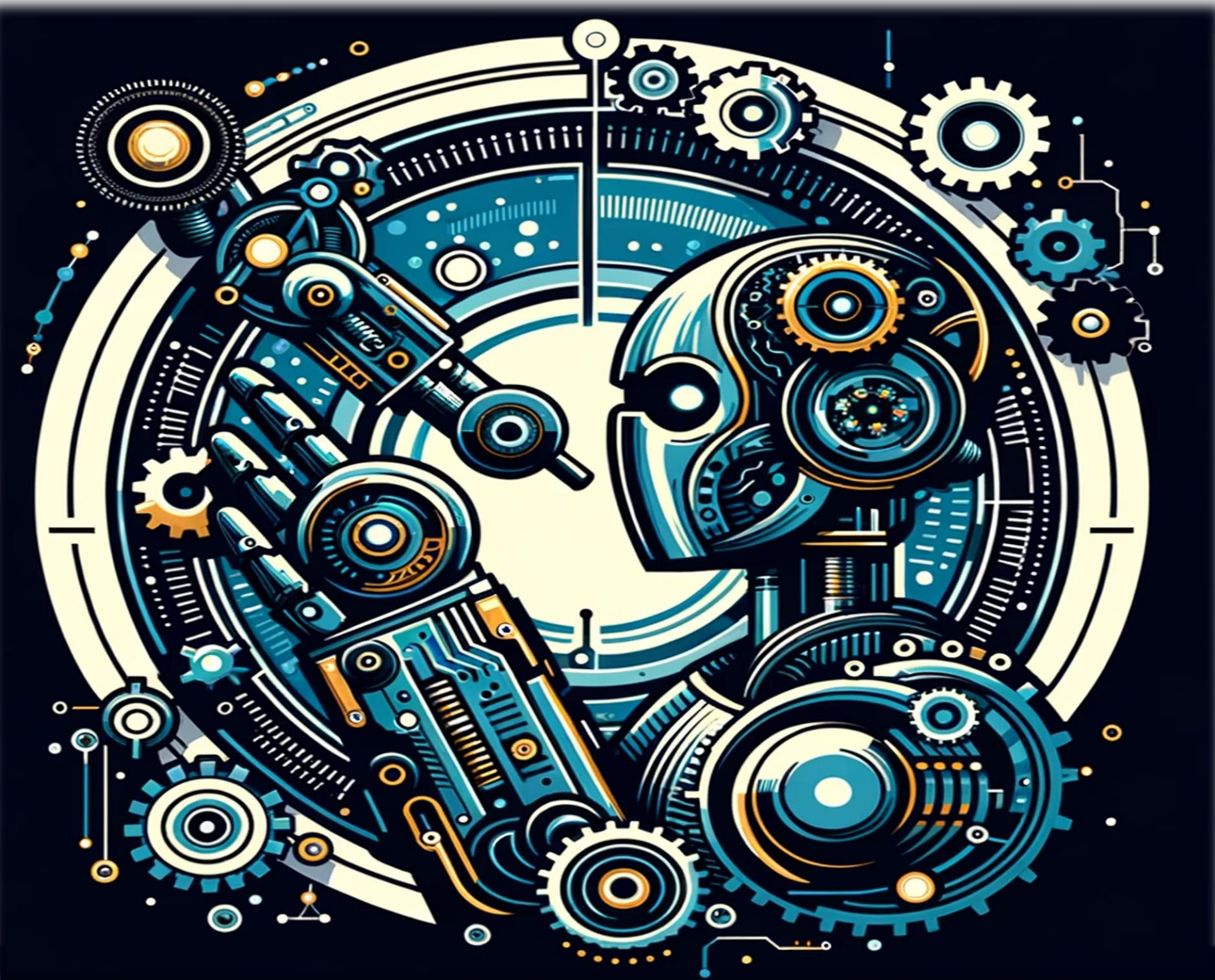
Understanding AI Basics



Important subsets of AI:

- Machine Learning (ML)
- Deep Learning
- Natural Language Processing (NLP)
- Computer Vision

Understanding AI Basics



Important subsets of AI:

- Machine Learning (ML)
- Deep Learning
- Natural Language Processing (NLP)
- Computer Vision
- Robotics

Research Activity

In groups or pairs, research one of the subsets

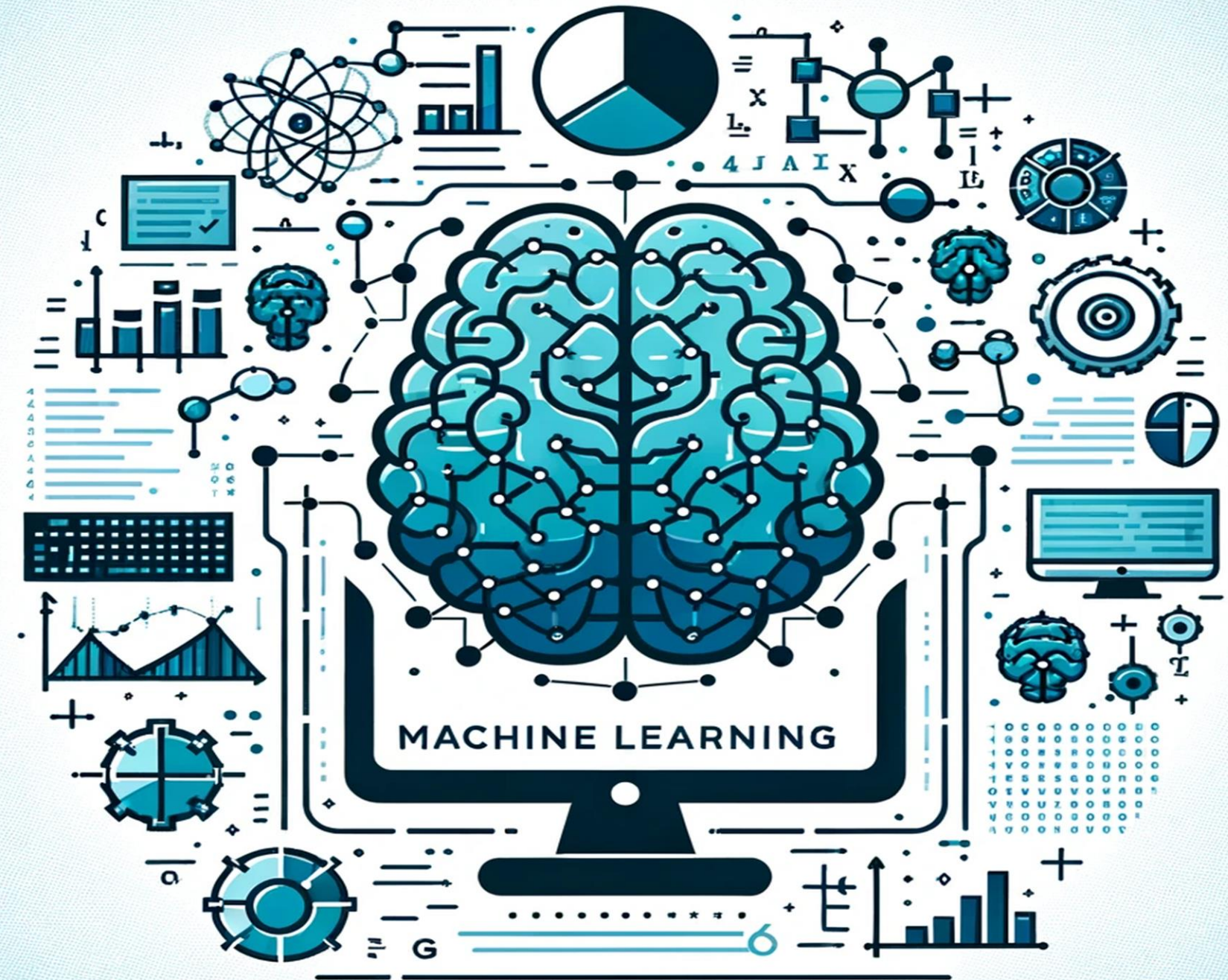
Create a poster or presentation to teach your colleagues about the chosen subset



Understanding AI Basics

Machine Learning (ML):

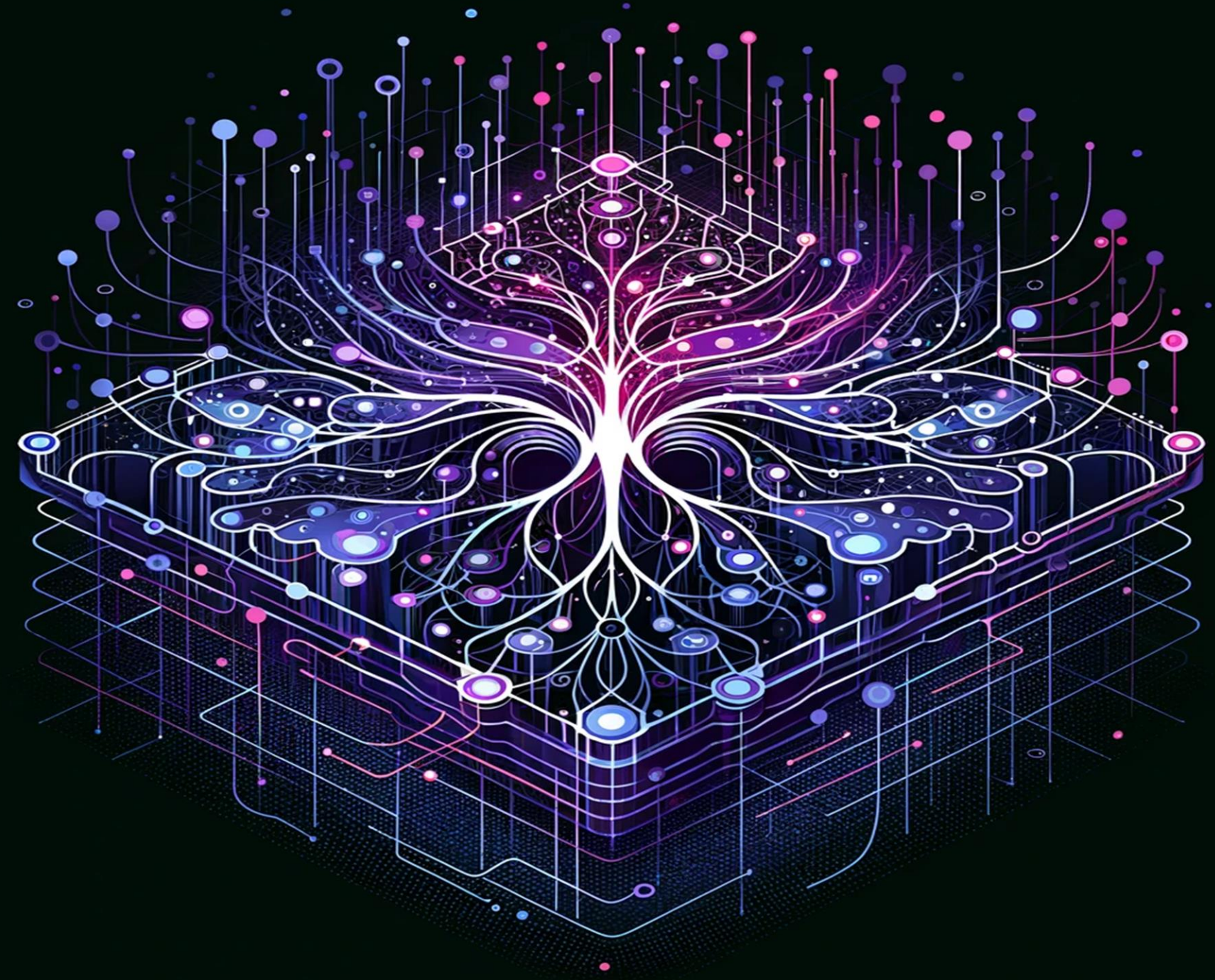
This is like teaching a computer to learn from examples. Just as students learn from their mistakes and successes, machine learning allows computers to improve at tasks by practicing and analysing data.



Understanding AI Basics

Deep Learning:

Think of deep learning as a more advanced form of machine learning, which works a lot like the human brain. Computers use something called neural networks to make sense of complex patterns, like recognising faces or understanding spoken words.



Understanding AI Basics

Natural Language Processing (NLP):

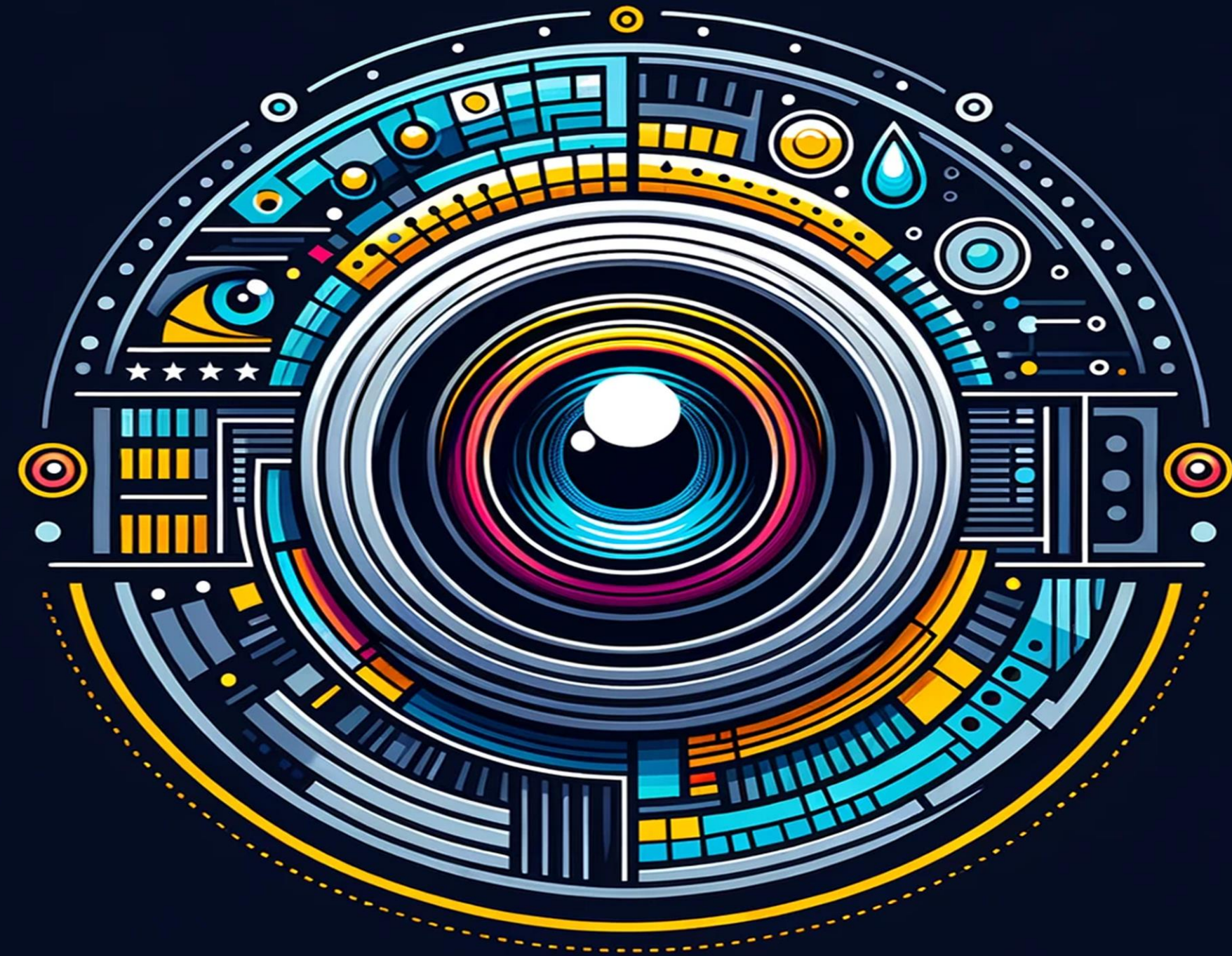
NLP helps computers understand and respond to text or voice commands in a human-like way. It's the technology behind voice-activated assistants on smartphones and computers.



Understanding AI Basics

Computer Vision:

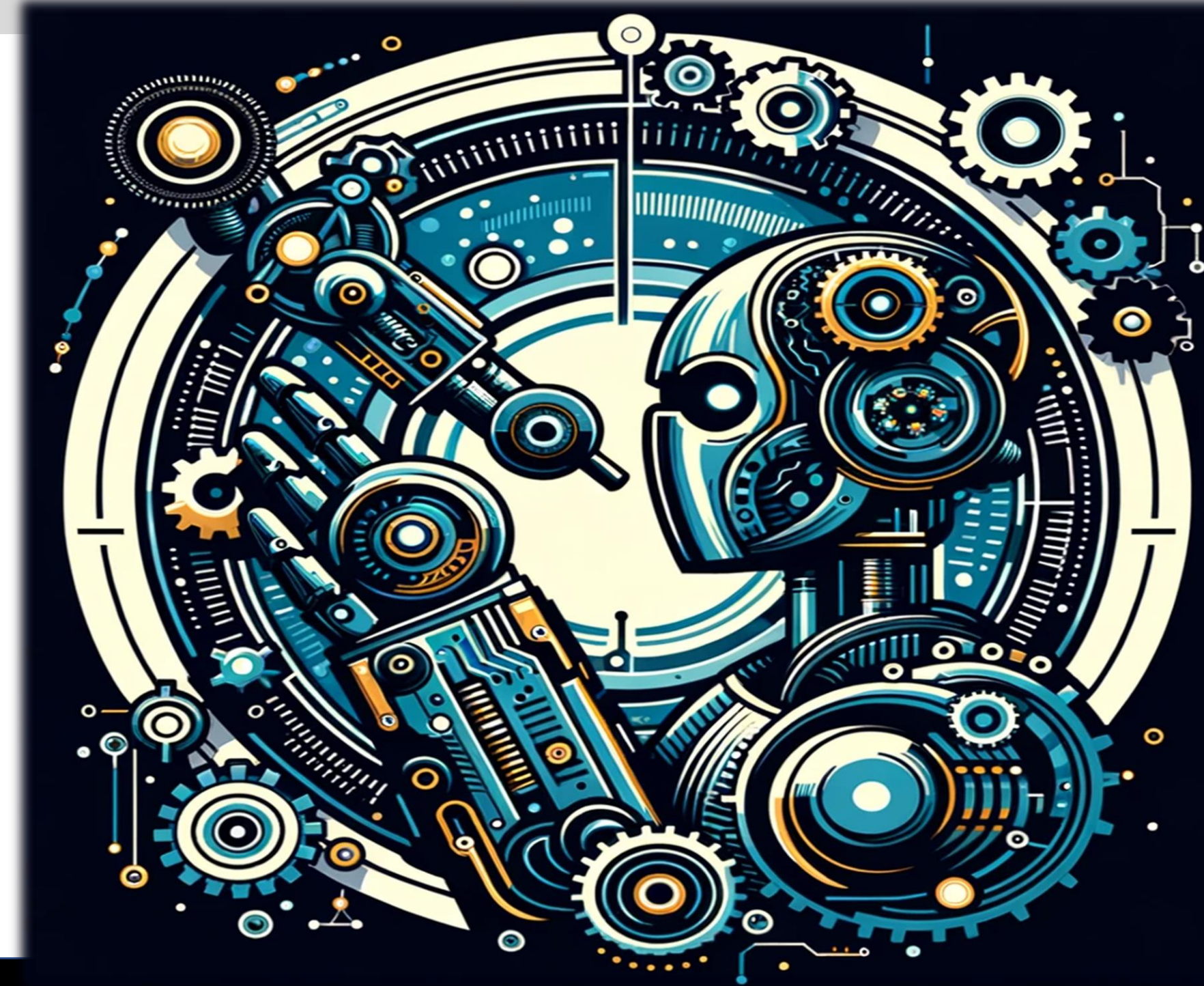
This subset enables computers to "see" and interpret the world around them through images or videos. It's how self-driving cars recognise traffic signs or your photo app categorises pictures of your dog.



Understanding AI Basics

Robotics:

When AI is applied to robots, it allows them to perform tasks on their own, learn from their environment, and even work alongside humans. Robots in manufacturing, healthcare, and even household robots that clean for us are examples.



Discussion Point

Based on the examples we just looked at.

Can you guess what area of AI each subset belongs to?

Narrow or General



Algorithm Activity

Create an algorithm to explain one task you do everyday

Note: Algorithms should include exact steps required to carry out a task



Lesson Plan Activity

Use AI software to create a lesson plan

The aim of the lesson can be about any subject/topic



Join at [menti.com](https://www.menti.com)

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7780 6704

Intro Activity

What are patterns?

Describe in your own words.



Or scan QR code

Patterns in AI

Patterns play a crucial role in AI.

They form the foundation for many AI systems to learn, make decisions, and interact with the world.

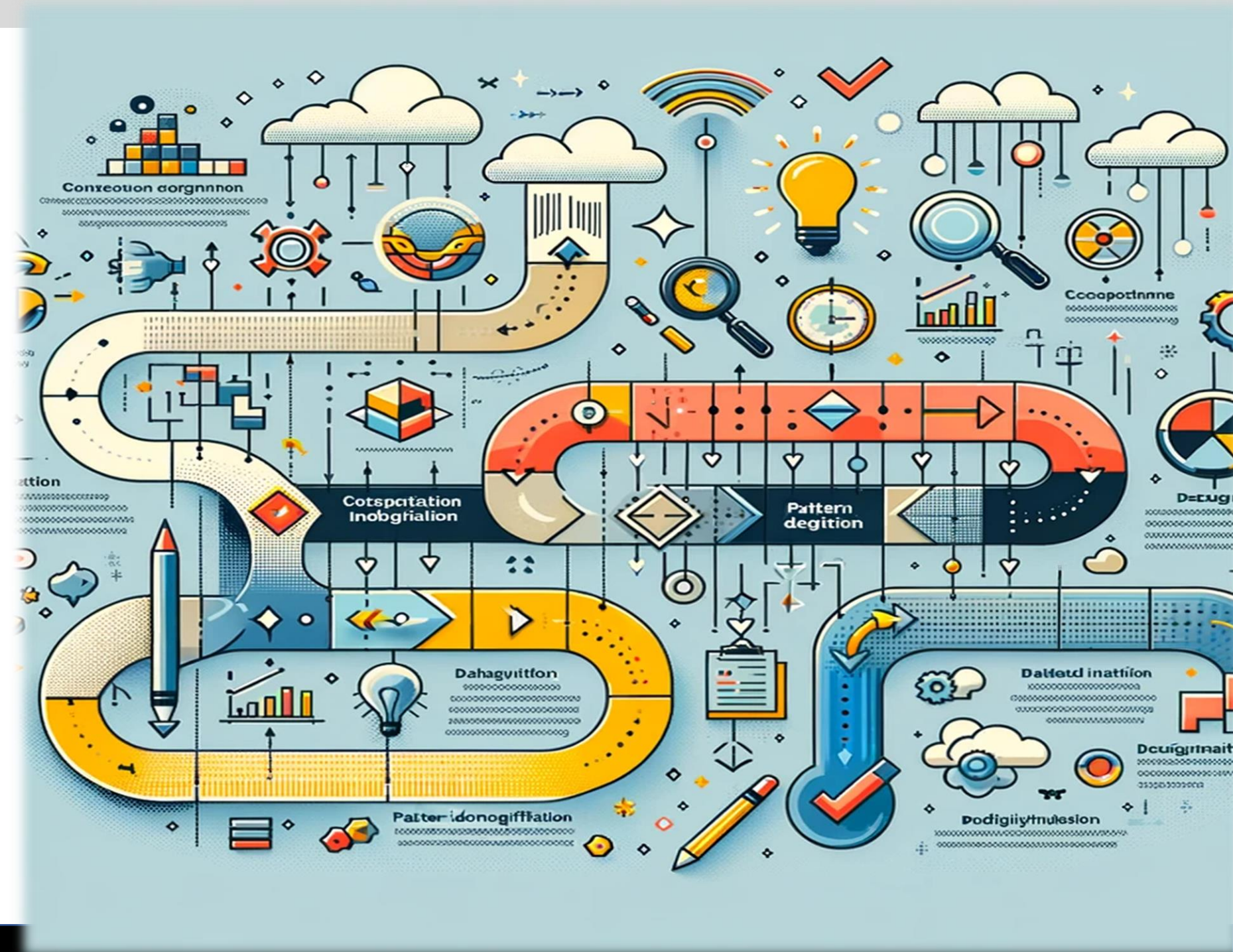
AI, at its core, involves the creation of algorithms that can process, analyse, and learn from data.



Patterns in AI

Patterns, whether in data sequences, images, sounds, or behaviours, are key to this learning process.

The relationship between patterns and AI can be understood through several fundamental aspects.



Patterns in AI

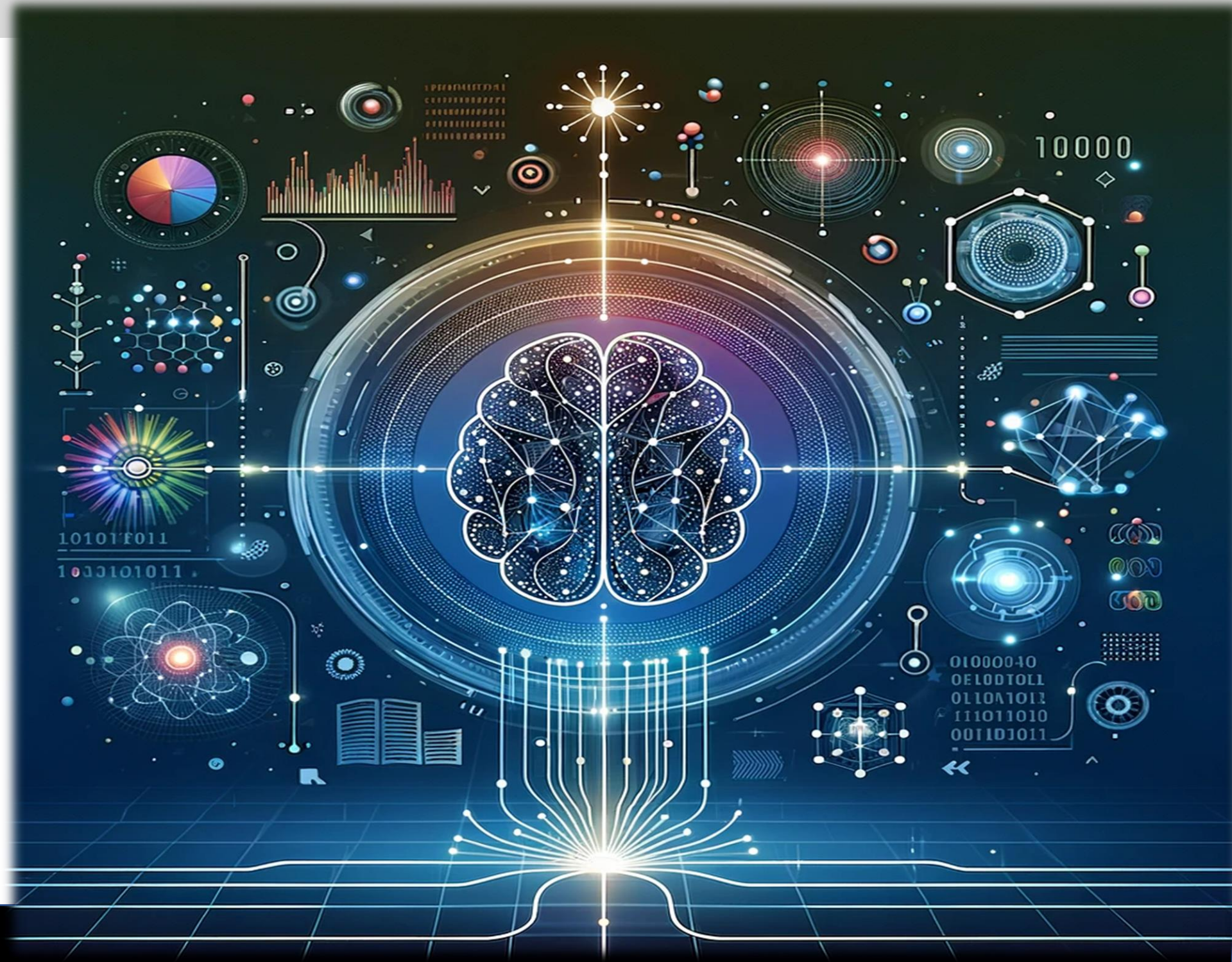
Patterns are integral to the functionality of AI across various applications, enabling systems to learn from data, make decisions, adapt to new information, and interact with the world in complex ways.



Pattern Recognition

Recognising and analysing patterns allows AI to emulate a level of understanding and decision-making that mimics human intelligence.

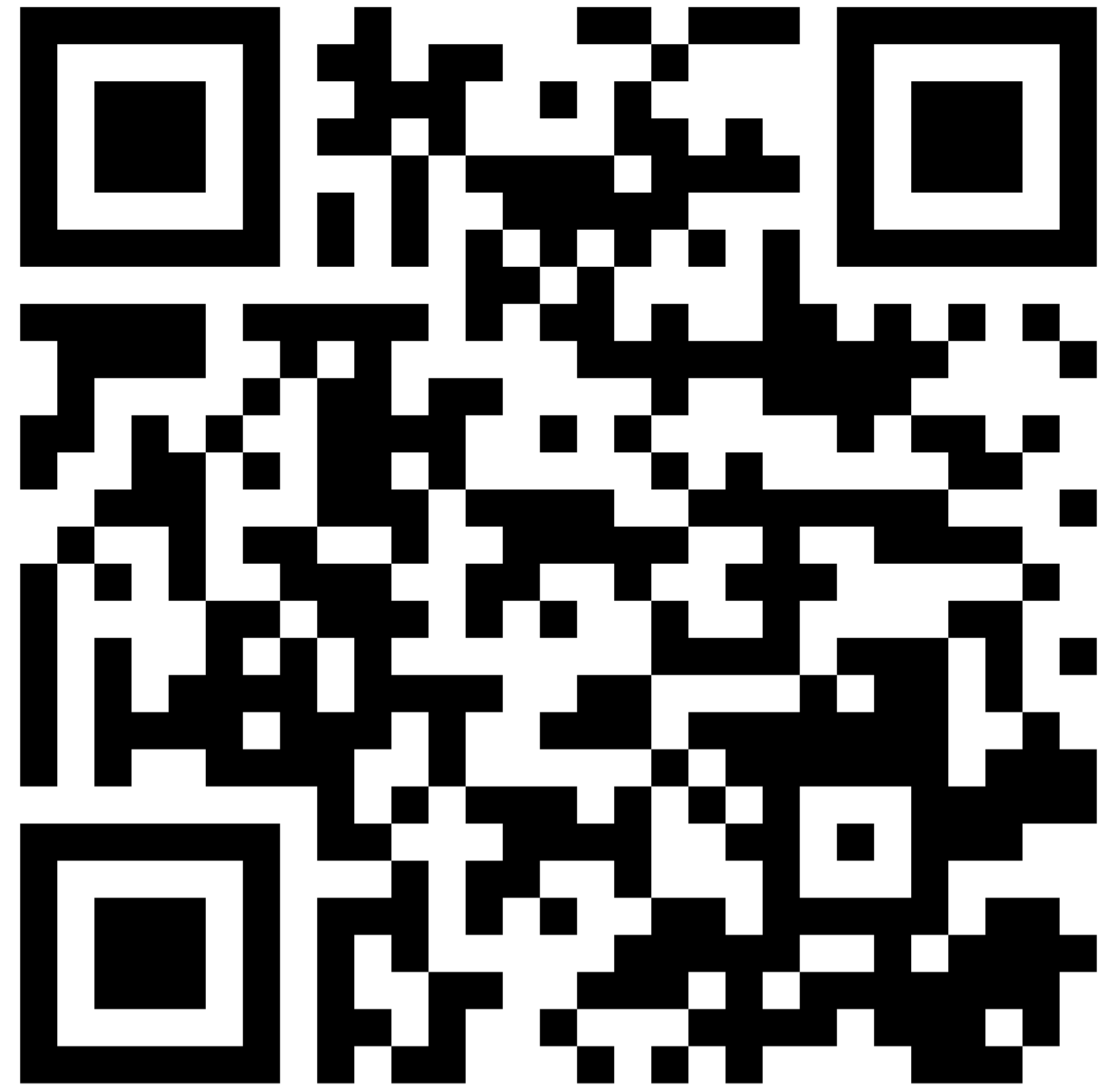
This only takes place within the confines of its programming and the data it has been trained on.



Patterns Activity

Complete the activity by scanning the QR code or typing the link into your browser

<https://quickdraw.withgoogle.com/>



Patterns and Machine Learning

Scan the QR code or search for
the link provided in you
browser

Watch the demo and then
complete a project for yourself

<https://machinelearningforkids.co.uk/>



***Discuss the following
questions***

Join at menti.com

Use Code
6930 3033

**What free AI tools are
currently available to help
educators?**



Or scan QR code

AI Tools for Educators



ChatGPT



AI Tools for Educators

 Gemini

 FeedbackFruits

 Vidnoz

 Imagine

 PopAi

 ELSA

 mondly
languages

 invideo

 MURF.AI

AI Tools for Education

aiforeducation.io

A very useful resource for teachers and students.

Lots of suggestions for using AI effectively in education.

<https://www.aiforeducation.io/>



PROMPT FRAMEWORK for EDUCATORS: The FIVE "S" Model

The 5 'S' Prompt Model

S  **ET THE SCENE**

Provide the AI Chatbot context on what role, expertise and/or environment it should use to guide its output.

Ex: "You are an expert STEM instructional designer and teacher..."

BE **S**  **PECIFIC**

Be specific in the instructions. Clearly define the task and provide details on what you would like included.

Ex: "Use the 5E model to create a 60-minute hands-on lesson..."

S  **IMPLIFY YOUR LANGUAGE**

Use a conversational approach with simplified language that avoids unnecessary jargon.

Ex: "Create an engaging lesson plan that aligns with CCSS..."

S  **TRUCTURE THE OUTPUT**

Tell the Chatbot how to structure the output with specifics on format, audience and/or sections.

Ex: "Create a rubric for my students formatted as a table with directions..."

S  **HARE FEEDBACK**

Provide feedback at all points in the conversation. Share specifics on what needs to be revised to meet your needs.

Ex: "Change the format from a table to a checklist..."

How to Use AI Responsibly **EVERY** Time

E **VALUATE** the initial output to see if it meets the intended purpose and your needs.

V **ERIFY** facts, figures, quotes, and data using reliable sources to ensure there are no hallucinations or bias.

E **DIT** your prompt and ask follow up questions to have the AI improve its output.

R **EVISE** the results to reflect your unique needs, style, and/or tone. AI output is a great starting point, but shouldn't be a final product.

Y **OU** are responsible for everything you create with AI. Always be transparent about how you've used these tools.

The 'Every' Time Model

AI Tools for Educators

ChatGPT by OpenAI

One of the most popular AI tools in the world.

Offers comprehensive solutions.

Can greatly reduce planning time for teachers when used correctly.



AI Tools for Educators

More Useful Prompts

Be Specific and Clear: Use precise language for information or tasks.

Include Context: Provide relevant background to enhance response accuracy.

Ask for Examples: Request examples for better understanding or inspiration.

Specify Desired Format or Tone: Mention if you need a specific format or tone.

Use Open-Ended Questions: Encourage broad and creative responses.

AI Tools for Educators

More Useful Prompts

Request Step-by-Step Guides: Ask for instructions in a step-by-step manner.

Incorporate Constraints: Mention any specific constraints or requirements.

Iterative Approach: Start broad, then refine prompts based on responses.

Ethical and Safe Requests: Ensure prompts adhere to ethical guidelines.

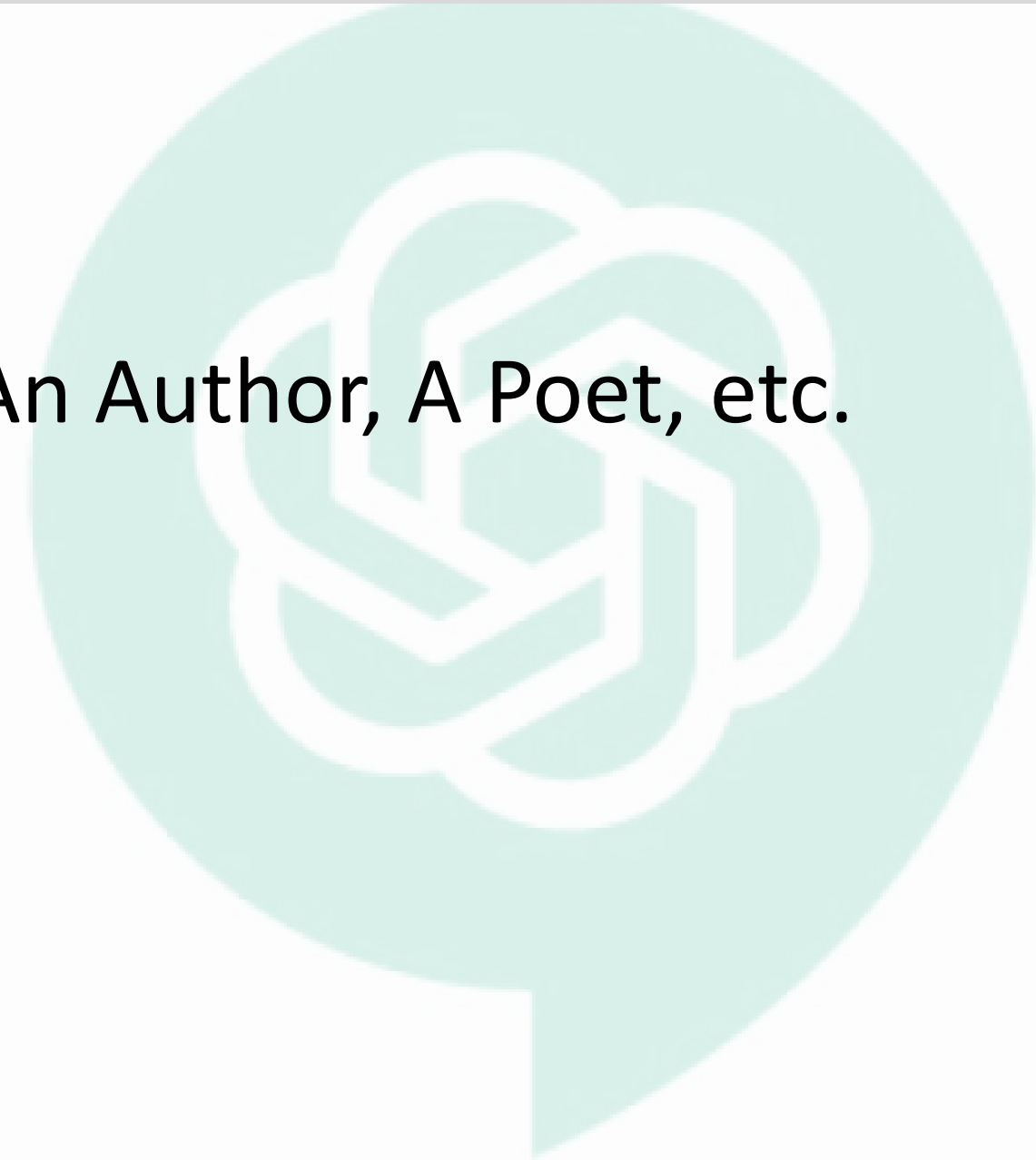
Feedback and Refinement: Provide feedback or ask for clarification to refine responses.

AI Tools for Educators

More Useful Tips

Ask AI to write in a certain style: First Person, Third Person, An Author, A Poet, etc.

ChatGPT





How can I help you today?

Show me a code snippet
of a website's sticky header

Help me pick
an outfit that will look good on camera

Brainstorm edge cases
for a function with birthdate as input, horoscope as o...

Design a database schema
for an online merch store

 Write a short story about AI training for educators in the style of William Shakespeare 

AI Tools for Educators

More Useful Tips

Ask AI to write in a certain style: First Person, Third Person, An Author, A Poet, etc.

Upon a stage set with glowing panels and flickering lights, the educators, wise and learned, did convene. Their quest? To master the art and craft of instructing not the youth in letters and numbers, but artificial minds in the ways of human thought and deed.

"Friends, Romans, educators, lend me your ears," spake the leader, a sage of great renown. "We embark upon a journey fraught with marvels and mysteries. To the realm of AI, we must impart the wealth of our knowledge, that these digital beings might aid us in our scholarly pursuits."

AI Tools for Educators

More Useful Tips

Give AI an Identity: A Personal Trainer, A Nutritionist, An English Professor, A Chef, etc.

This will provide more detailed and specific responses from the point of view outlined, rather than general responses.

Try it and see for yourself

AI Tools for Educators

Demo

Log into ChatGPT and follow the demo steps

You can utilise these prompts and tools to help you create a number of teaching resources

<https://chat.openai.com/>



AI Generation Activity

Use one of the AI tools outlined to create materials beneficial to your classroom

I suggest using PopAi to create Presentation Slides for a lesson

<https://www.popai.pro/>



AI Tools for Educators

Free Trial

Log into PopAi and create a free account

You can create one Presentation for free with the help of AI.

<https://www.popai.pro/>



AI Tools for Educators

Translator

There is many excellent translation tools available. They use AI to help process key instructions in many languages.

Microsoft Translator is one tool I've used when providing learning support in Math, Science and English lessons.

<https://translator.microsoft.com/>



<https://youtu.be/fwRwEPhhVg?si=aj2xMV3pVvd7twby>

AI Tools for Educators

Language Applications

There is lots of excellent educational apps available that use AI to help not native speakers learn a language.

Mondly is one that has free daily lessons for users without subscription.

<https://www.mondly.com/>

mondly
languages



Exploration Activity

Try one of the AI tools suggested from training today.

How can this benefit you as a language teacher? What can you create?



THERE'S AN AI FOR THAT*

12,351 AIs for 16,688 tasks and 4,847 jobs.

Powered by [Osum \(Market research\)](#).

302,989 searches today

Search All AI Tools Here

Search for **Search All AI Tools Here** using AI

ed **Today** **New** Requests Most saved Tasks Timeline **Get featured** Job Impact Index Influenc

New
Check out AI tool Requests

All

GPT

iOS

Android

Chrome

▼ New

<https://theresanaiforthat.com/>

Useful PDF Resources

blog.classpoint.io/wp-content/uploads/The-A-Z-Guide-to-AI-in-Education-2023-1.pdf

[AI-Toolkit-for-Educators v3.pdf \(paradoxlearning.com\)](#)

[AI in the Classroom: 10+ Tools for Teachers \(ditchthattextbook.com\)](#)

AI Tools for Education

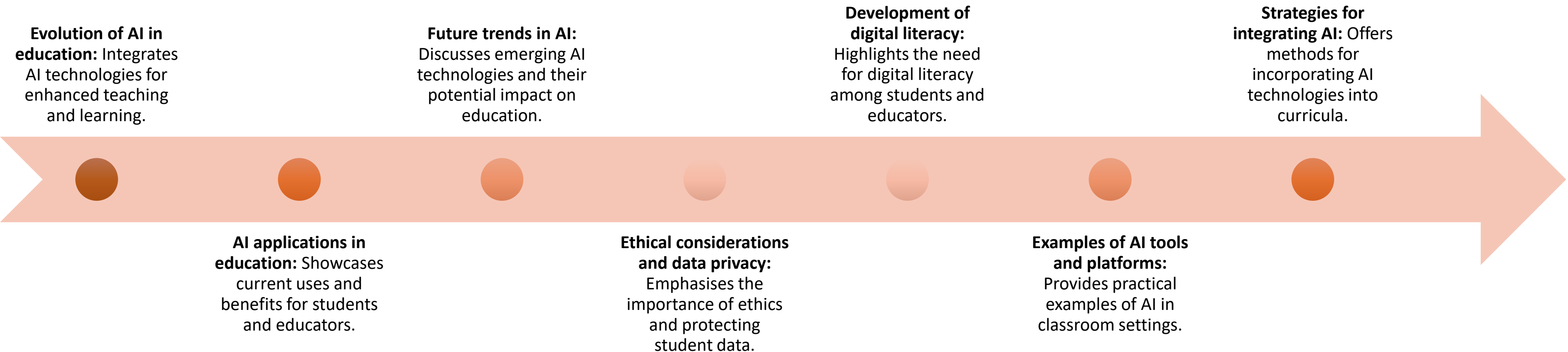
Share links to any useful AI or Teaching Tools you currently use in education.

This Padlet will remain available for you to access, update and revisit suggestions.

Scan the QR code



Key Takeaways



Evolution of AI in education:
Integrates AI technologies for enhanced teaching and learning.

Future trends in AI: Discusses emerging AI technologies and their potential impact on education.

AI applications in education:
Showcases current uses and benefits for students and educators.

Ethical considerations and data privacy:
Emphasises the importance of ethics and protecting student data.

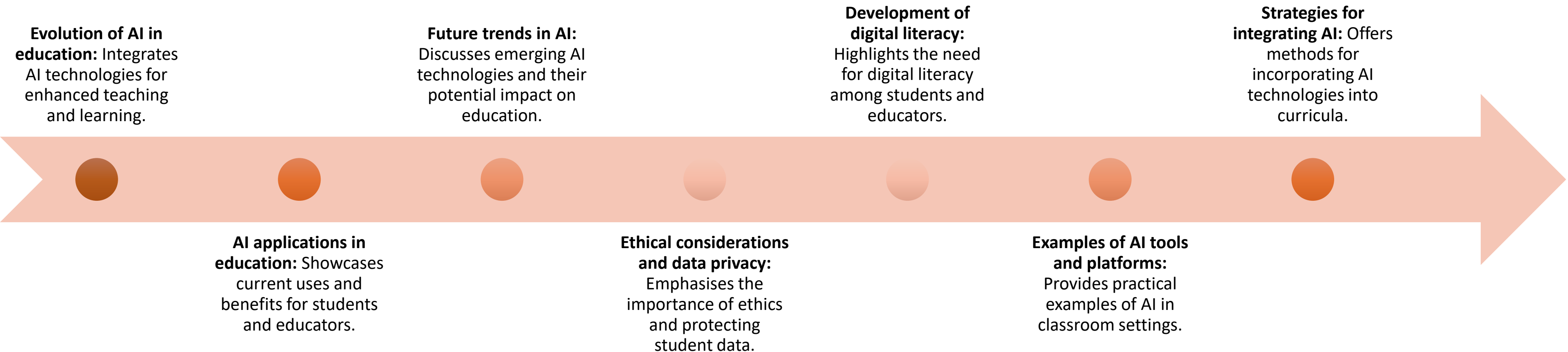
Development of digital literacy:
Highlights the need for digital literacy among students and educators.

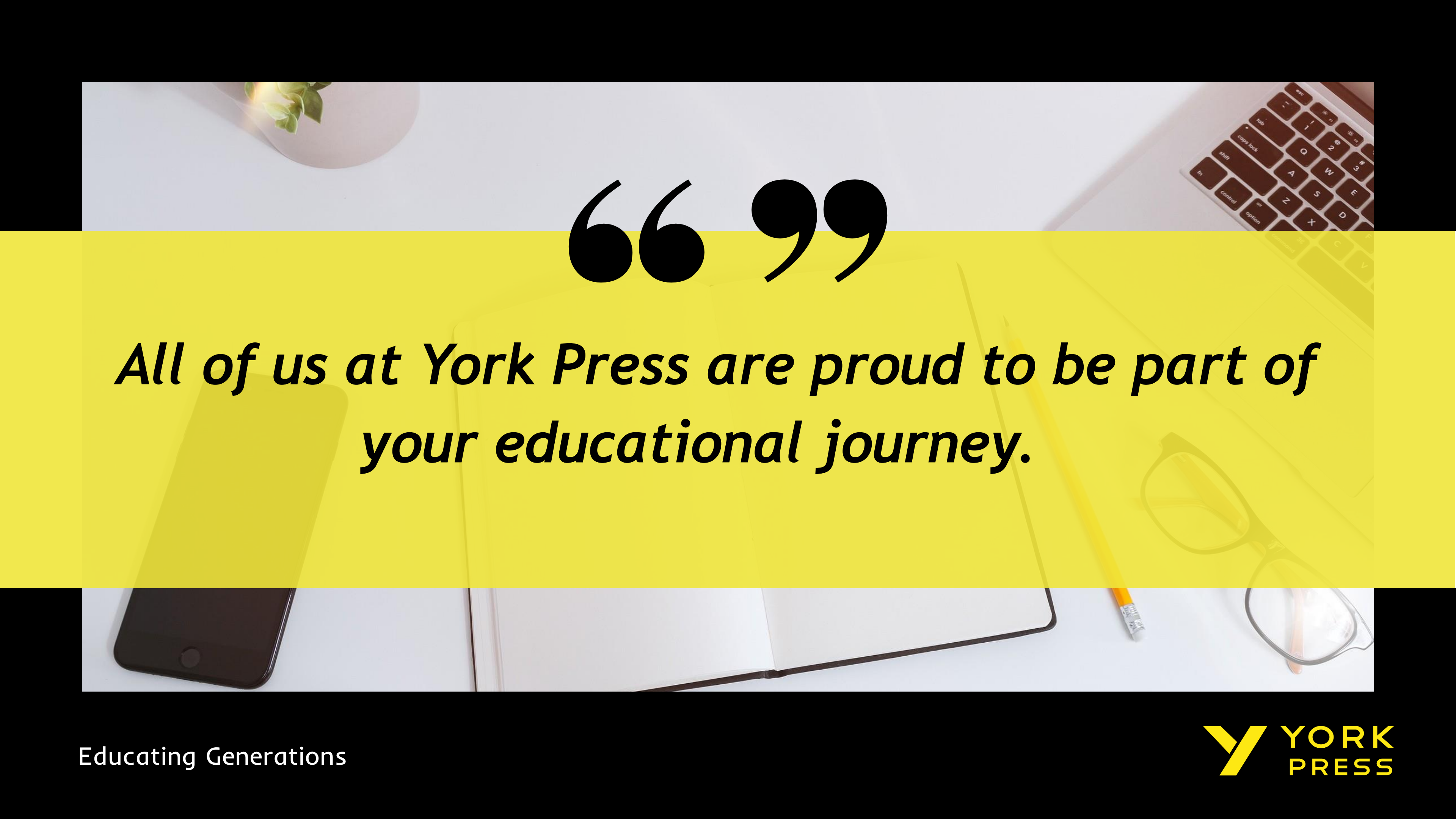
Strategies for integrating AI:
Offers methods for incorporating AI technologies into curricula.

Ethical considerations and data privacy:
Emphasises the importance of ethics and protecting student data.

Examples of AI tools and platforms:
Provides practical examples of AI in classroom settings.

Key Takeaways



A top-down view of a desk with a laptop, smartphone, glasses, and a pencil. A yellow banner is overlaid on the center.

“ ”

All of us at York Press are proud to be part of your educational journey.

Thank you!



Educating Generations



Contact Us

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