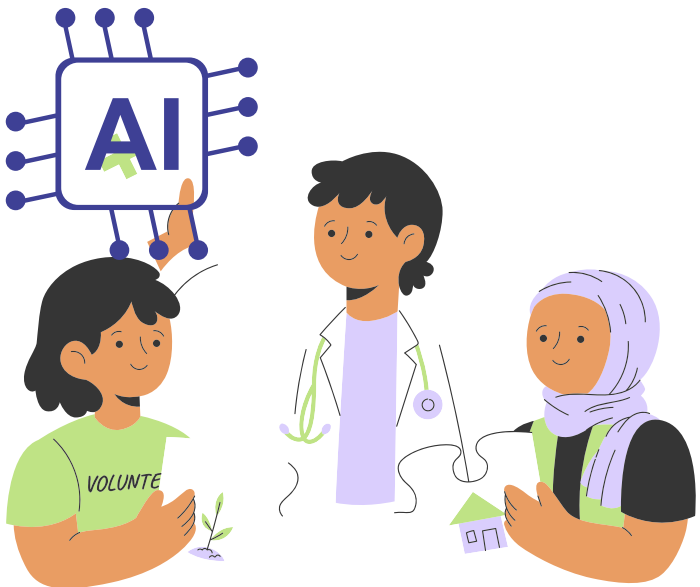
CARICOM DIGITAL DOWNLOAD

The AI Spectrum: From Simple Algorithms to Super Intelligence

Learn about some of the types of AI.

The **Caribbean Community (CARICOM)** Secretariat, through the **CARICOM Single ICT Space**, is driving digital transformation across the Region, paving the way for innovation and economic growth. At the heart of this transformation is Artificial Intelligence (AI), a powerful technology reshaping industries and redefining how we work and live. From streamlining operations to enhancing decision-making, AI holds immense potential to revolutionize key sectors like **healthcare, agriculture, education, and trade**—unlocking new opportunities and fostering a smarter, more connected Caribbean.



Everyday AI Technologies

AI today is being developed and used in multiple ways.

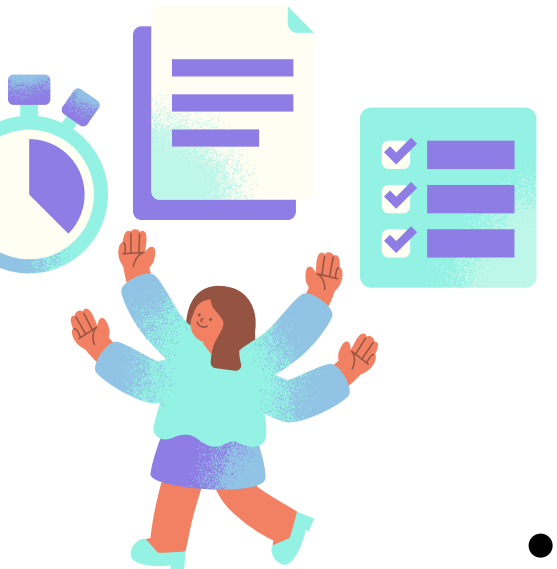
- **Generative AI, like ChatGPT, DALL·E, and Gem**ini, can create human-like text, images, videos and animation, helping users perform complex tasks in minutes.
- **Natural Language Processing (NLP)** powers translation apps like **Google Translate** and smart assistants that understand voice commands.
- **Deep Learning** models identify faces in photos, detect diseases in medical imaging, and can predict weather patterns.

Types of Functionality-Based AI

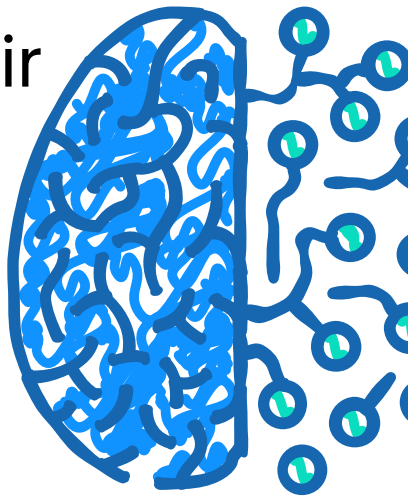
- The simplest form of AI, **Reactive Machines,** operates on input-output mechanisms without memory. An example of Reactive Machines is the use of AI in the game of Chess, where the AI makes moves based on the current board position without recalling past games.
- More advanced is **Limited Memory AI,** which improves over time by learning from past data. This technology is behind self-driving cars, and fraud detection systems.
- **Theory of Mind AI,** a field still in development, aims to create AI that understands emotions, human intent, and social interactions. An example of this is voice assistants like Siri and Alexa, whiich are commonly called **Conversational AI.**. The most ambitious concept, however, is **Self-Aware AI,** which, at this stage, remains purely theoretical. This would be AI with human-like consciousness and reasoning.

$a \div b$ or $\frac{a}{b}$

Types of Capabilities-Based AI

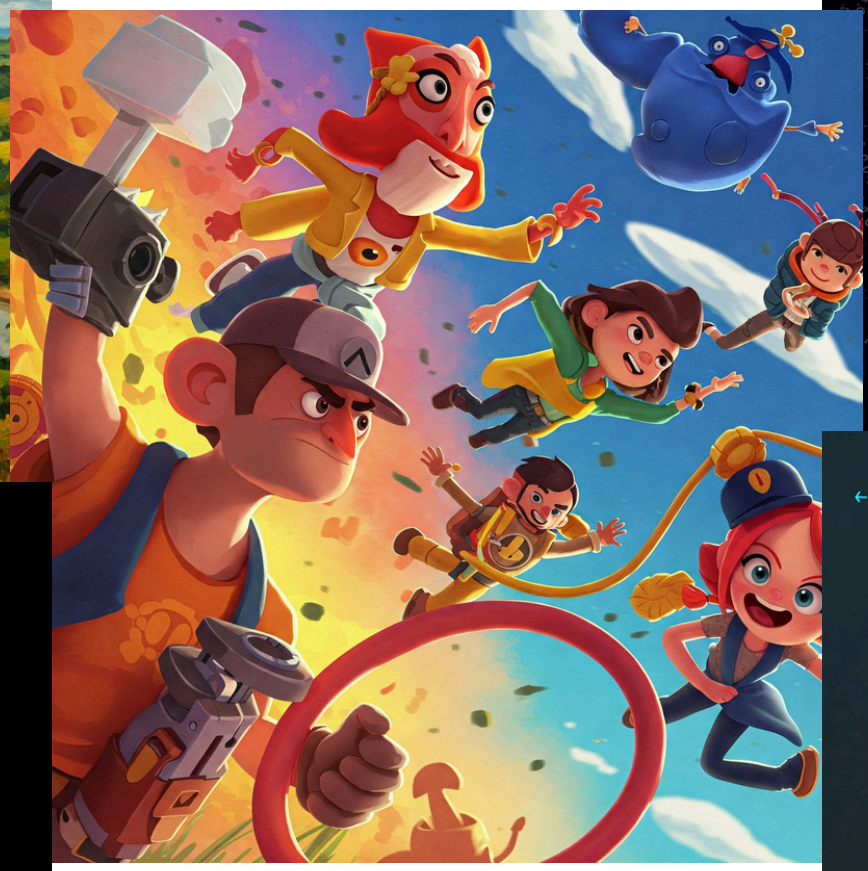


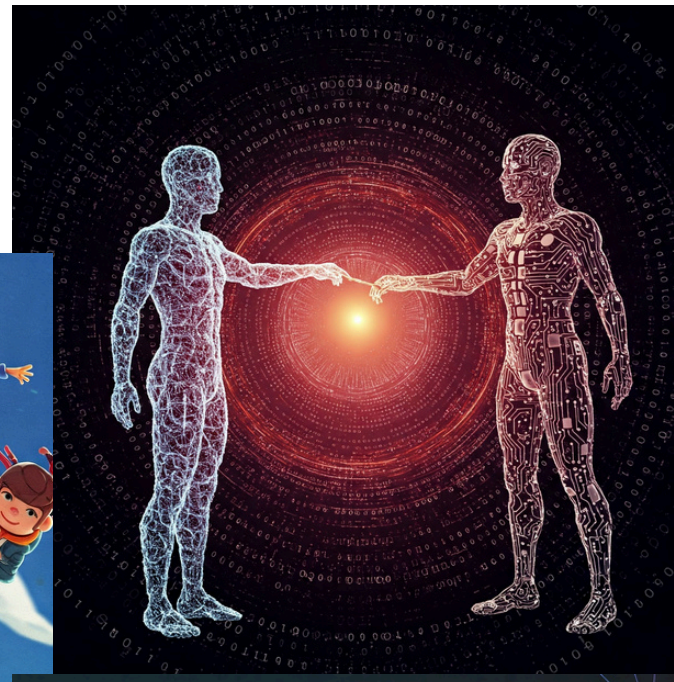
- There is **Artificial Narrow Intelligence (ANI)**, with which we interact daily. These systems are designed to perform specific tasks but cannot generalize beyond their programming. Image recognition software is an example of ANI.
- Still in development, is **Artificial General Intelligence (AGI).** Unlike ANI, AGI aims to replicate human cognitive abilities, enabling it to learn, reason, and apply knowledge across multiple areas.
- At the most advanced and theoretical level is **Artificial Super Intelligence (ASI),** an AI that would not only match but surpass human intelligence in all aspects,.

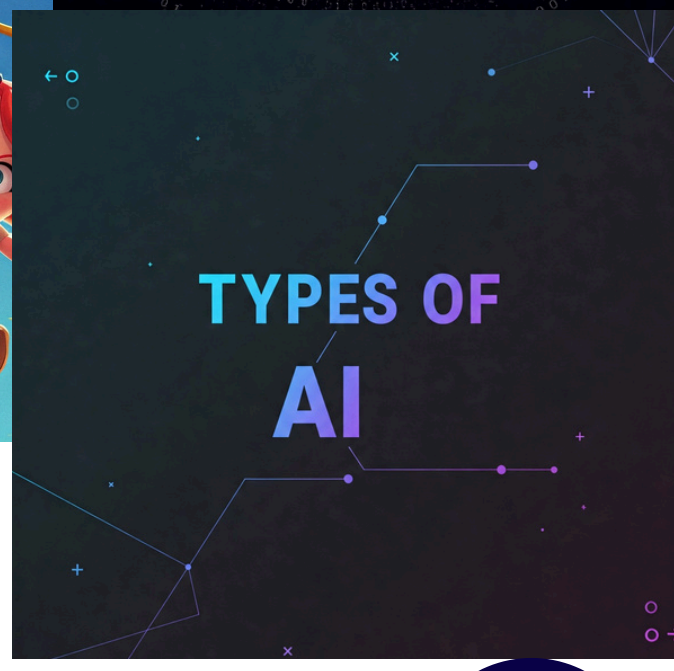


Examples of AI Generation

Images generated by Gemini AI.







AI continues to evolve, and its impact on the Caribbean Community will depend on how well the Region prepares for its integration. To ensure a successful transition, **CARICOM Member States** must focus on:

- Educating citizens on AI technologies to build a knowledgeable workforce.
- Strengthening cybersecurity, infrastructure, and policies to support AI adoption.
- Encouraging research, development, and implementation of AI-driven solutions.
- Expanding access to training programs and upskilling initiatives.
- Making AI-powered solutions accessible to all communities, preserving cultural and economic integrity.

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Website: https://caricom.org/ict-for-development-overview/