

# What is Artificial Intelligence?

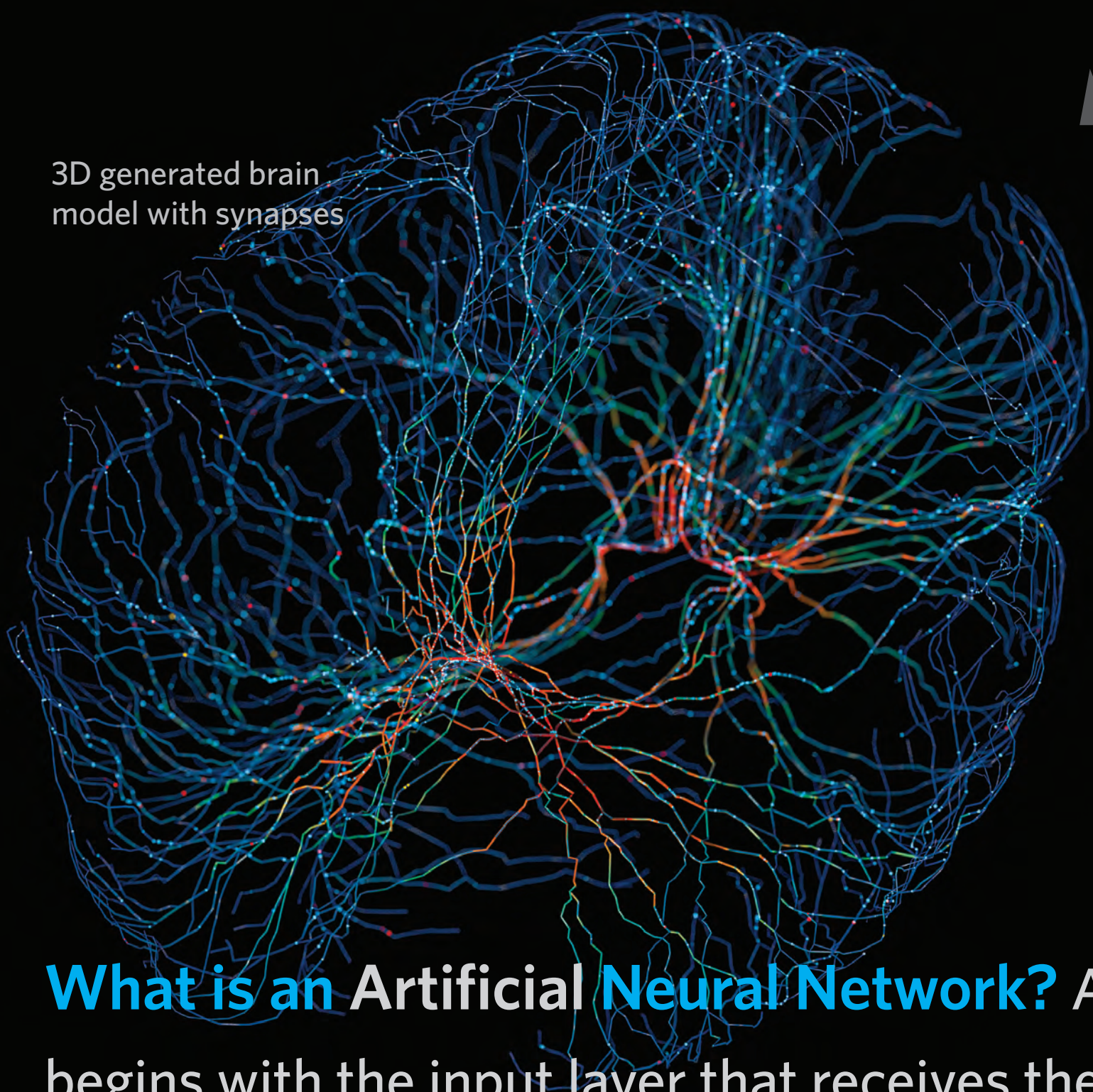
AI generated image of a neural network from the human brain using Midjourney

## What is Intelligence?

Intelligence is about thinking, learning, and problem-solving. Humans gather and process information, making decisions. Our unique intelligence allows creation, communication, and adaptation to diverse situations.

## How Do Our Brains Work?

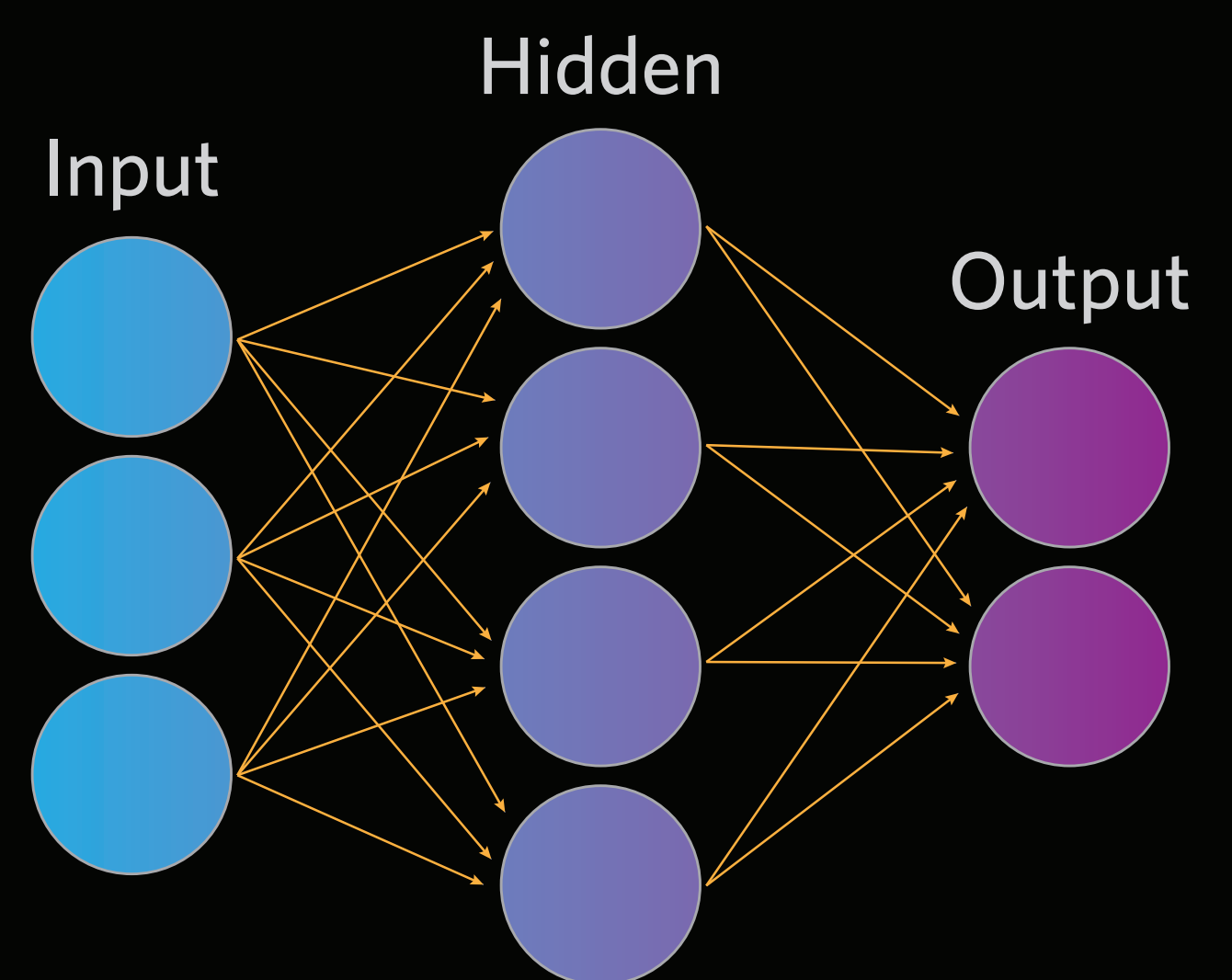
Our brains are incredibly complex organs that help us function as thinking beings. They consist of billions of tiny cells called neurons, like messengers that carry information from one part of the brain to another.



3D generated brain model with synapses

**What is a Human Neural Network?** Think of your brain as a big city with intricate roads, buildings, and hubs. In this city, there are billions of special cells called neurons. These neurons are where all the important activities happen. When they need to communicate or send messages to each other, they use pathways called synapses.

**What is an Artificial Neural Network?** An artificial neural network begins with the input layer that receives the initial data. The data travels through one or more hidden layers, where the network makes calculations and begins to recognize patterns and act as the network's internal processing center. Finally, the processed information reaches the output layer, which provides decisions based on the received data.



## What is Artificial Intelligence?

Artificial Intelligence, or AI, is a branch of computer science that aims to create machines or computer programs that can mimic human intelligence. As our brains work, AI uses algorithms or blueprints to process information, learn from it, and make decisions.

## What is Generative AI?

Generative AI is like a creative artist but in machine form, producing original content such as art, music, and stories. By analyzing vast examples, it understands patterns, like how a cat looks or how a story flows. An example of such a tool is ChatGPT.

