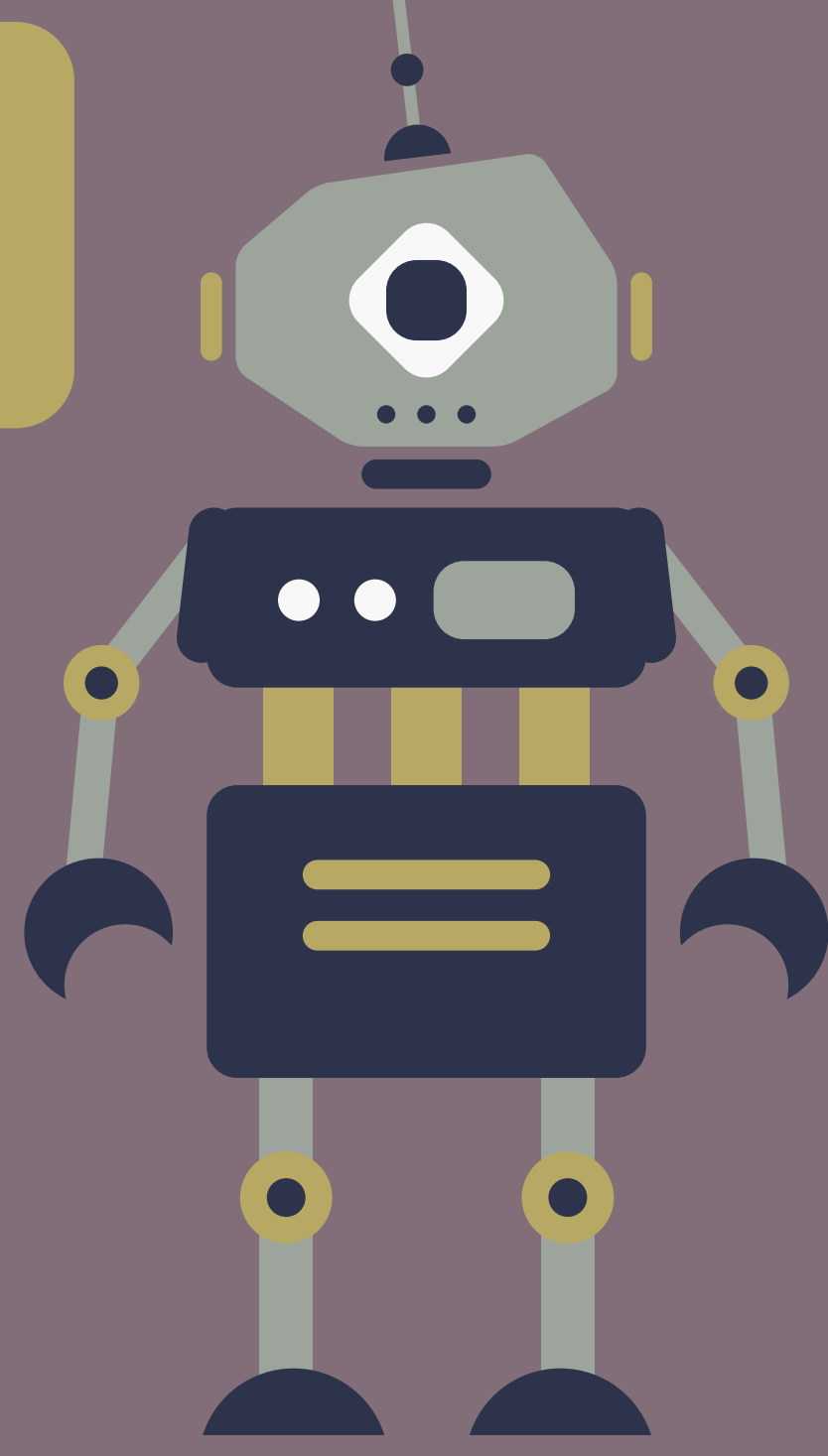


Artificial Intelligence and Cloud



What is AI?

When people think of AI, they think of a robot from a science fiction film made of shiny metal or including an ominous red glowing light. In reality, AI is a very broad term that refers to any computer system that **mimics the abilities of a human brain**.



85%

of Americans already utilize some kind of AI technology in their daily lives, from navigation apps like Waze and Google Maps to media and streaming apps, like Youtube or Spotify.

Gallup 2018

AI vs Machine Learning Vs Deep Learning

If "Artificial Intelligence" refers to the idea of a machine being able to accomplish tasks previously reserved for human brains, what is "Machine Learning" or "Deep Learning"? The difference is in how they are constructed and connected internally.

Artificial Intelligence

Machine Learning

A Neural Network is a series of algorithms that mimic the human brain. Machine Learning models utilize Neural Networks to learn from experience. Models can be retrained for greater accuracy as more data is collected.

Deep Learning

Deep Learning is a subset of Machine Learning, in which layers of interconnected neurons teach themselves as they are exposed to data. More complex models can be created by increasing the number of neurons per layer, the number of layers in a model, and the connections between.

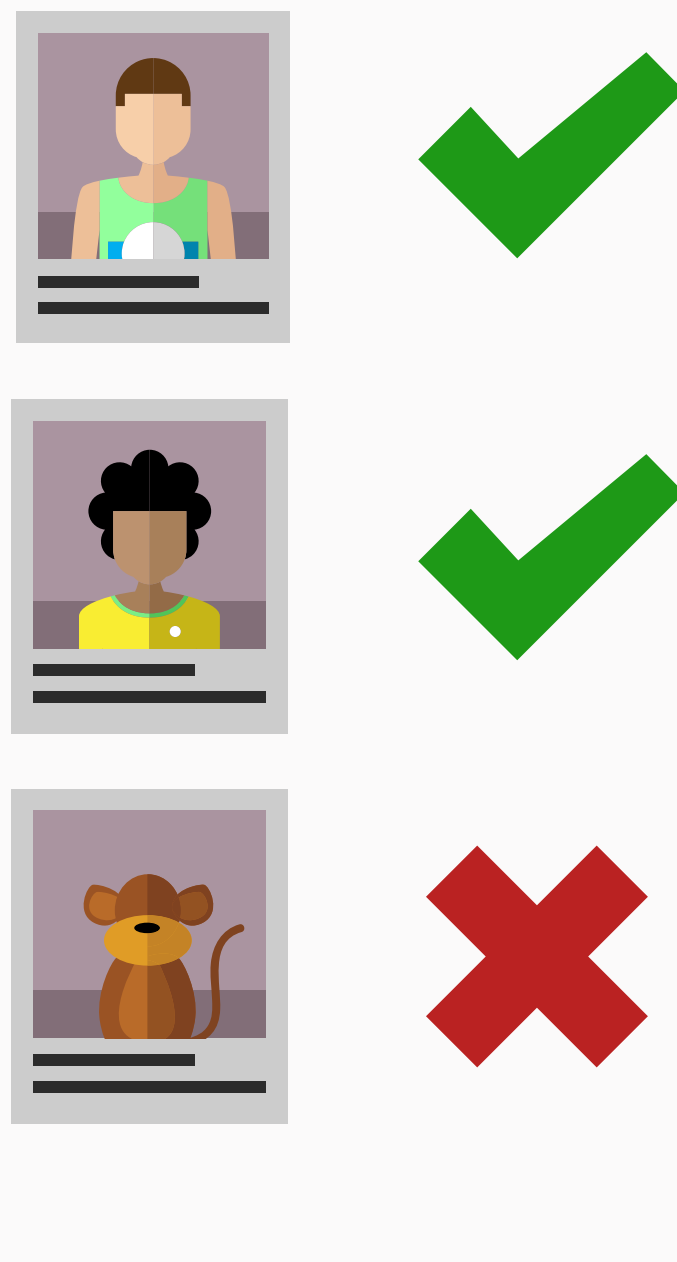
How does Artificial Intelligence work?

The basic process for creating an AI involves gathering a very large set of data, training the layers of the AI to understand correct and incorrect outcomes, and then implementing and measuring the results of the AI usage to create an even more effective model.

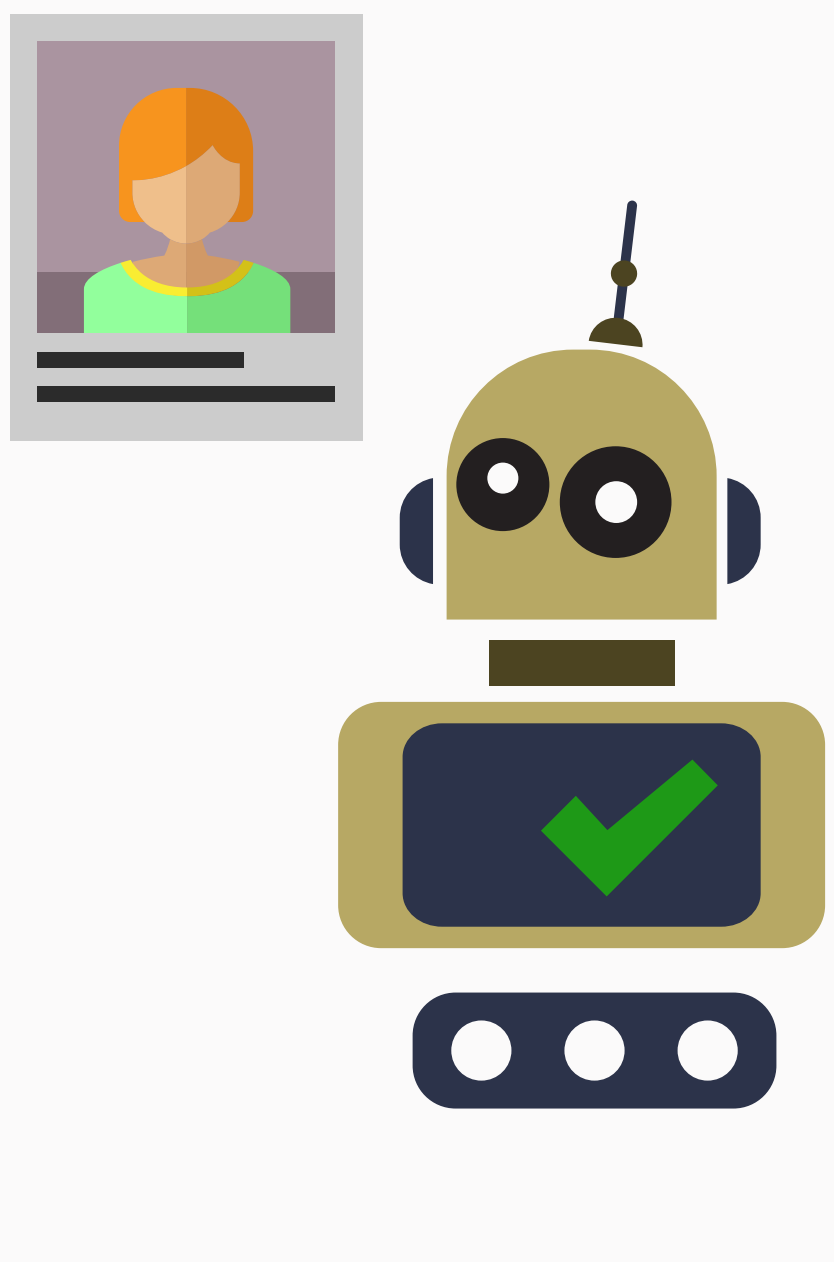
Data



Train



Use



How does Cloud fit in?

Because of the very large amount of data needed to train and deploy an AI model, many companies aren't at the point where it would be feasible or cost effective to build a custom AI. However, large providers like Amazon, Google, Microsoft Azure, and Alibaba offer a suite of AI-enhanced or AI-driven products instead; many of which can be customized to suit your individual business needs.

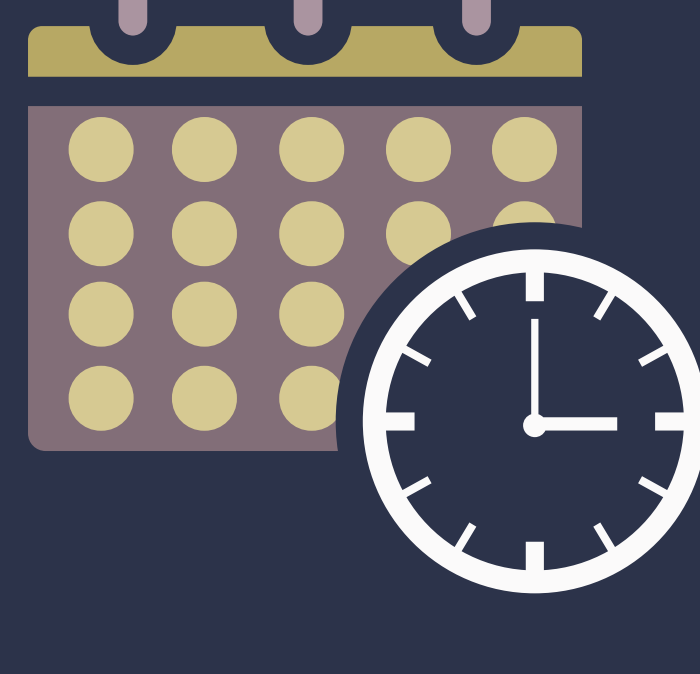
Pre-Built Services



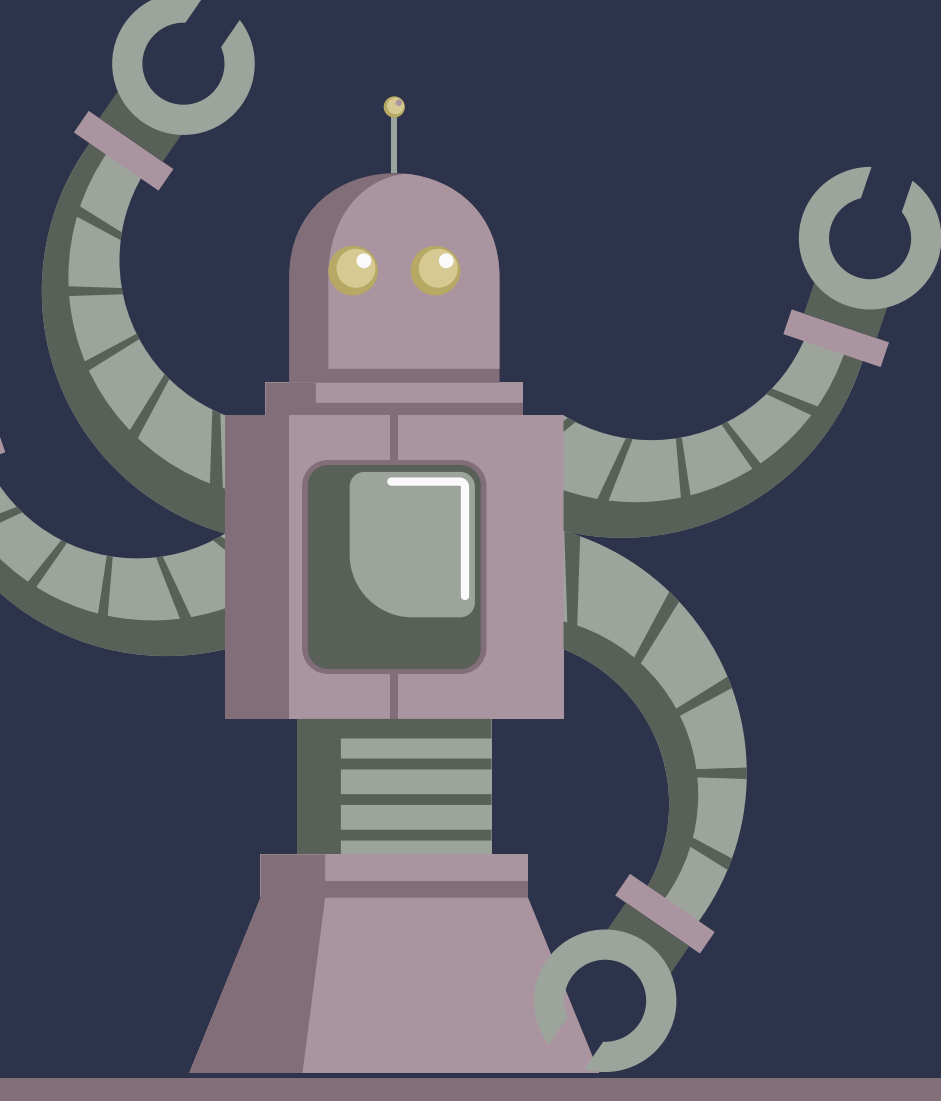
Data Recognition



Text-to-Speech



Scheduling Algorithm



Natural Language Processing



Industrial Control and Forecasting

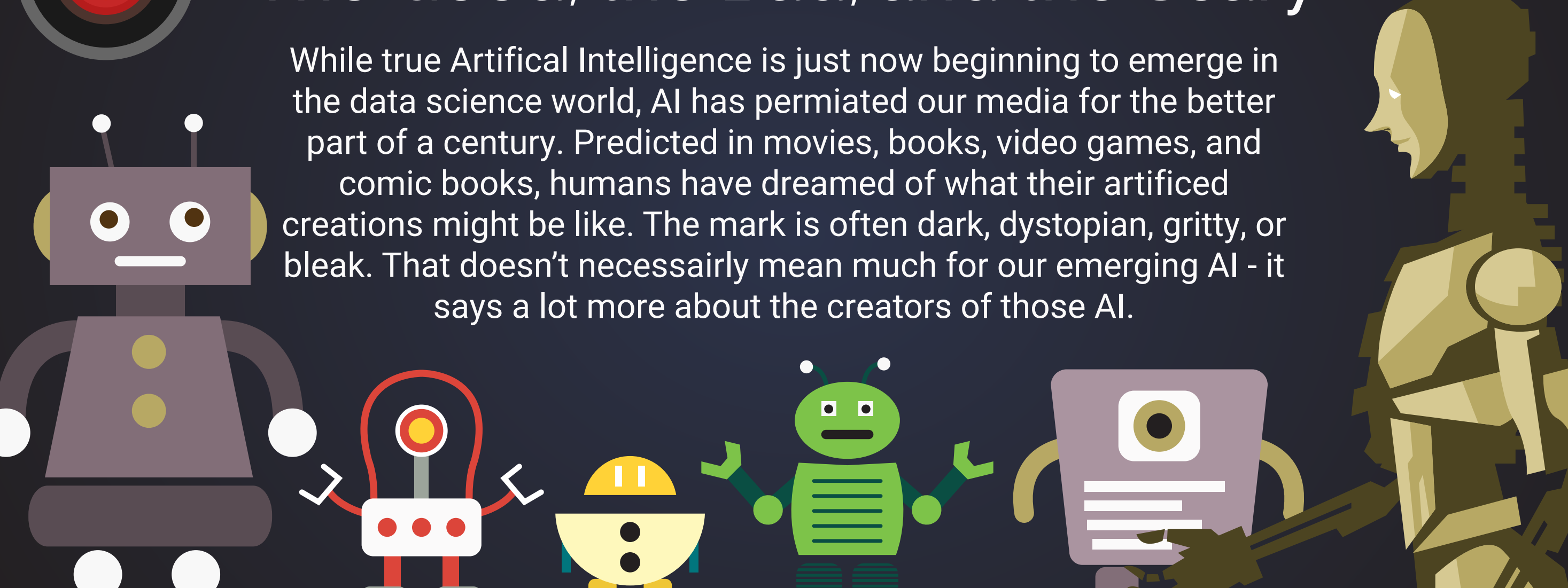
Where is the Future of AI?

While AI doesn't always refer to sentient robots, the future of AI does frighten a lot of people. But not all news is bad news, and when it comes to AI, there are a lot of exciting advancements just on the technical horizon. For example, several providers are currently conceiving an interconnected 'smart city' where existing AI and cloud services can be connected. The project combines the most innovative technologies in cloud computing and new breakthroughs in AI technology.



The Good, the Bad, and the Scary

While true Artificial Intelligence is just now beginning to emerge in the data science world, AI has permeated our media for the better part of a century. Predicted in movies, books, video games, and comic books, the future has been dreamed of what artificial creations might be like. The mark is often dark, dystopian, gritty, or bleak. That doesn't necessarily mean dark for our emerging AI - it says a lot more about the creators of those AI.



Want to know more?

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