

Data Science News

Apple has circuits tuned to accelerate certain kinds of artificial-intelligence software, called artificial neural networks, that are good at processing images and speech. “I think you’re going to see them everywhere for sure,” says Eugenio Culurciello, a professor at Purdue who works on chips for machine learning.

<https://www.wired.com/story/apples-neural-engine-infuses-the-iphone-with-ai-smarts/>

The components are a Dot Projector (structured light transmitter), the Infrared Camera (structured light receiver), Flood Illuminator (Ambient sensor) and a proximity sensor. Finally, the iPhone X’s front camera gathers 2D data regarding a user’s face. The Dot Projector starts the cycle, by generating Infrared rays.

<http://wccfttech.com/apple-face-id-iphone-x-everything-there-is-to-know/>

Every guest to Disney World gets a MagicBand, a wristband that is equipped with RFID technology and a long-range radio. These bands communicate with thousands of sensors and stream real-time data to hundreds of systems that make the entertainment venue a giant computer. Machine learning is being used to identify patterns and drive optimizations throughout the parks.

<https://www.forbes.com/sites/bernardmarr/2017/08/24/disney-uses-big-data-iot-and-machine-learning-to-boost-customer-experience/#7e9479cd3387>

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IBM Research is pairing its Jupyter-based Data Science Experience notebook environment with its cloud-based quantum computer, IBM Q, in hopes of encouraging a new class of entrepreneurial user to solve intractable problems that even exceed the capabilities of the best AI systems.

<https://www.datanami.com/2017/09/05/ibm-pairs-data-science-experience-quantum-computer/>

Amazon will open an R&D hub in Barcelona in early 2018 that will specialize in machine learning research

<http://www.businessinsider.com/amazon-looks-to-gain-a-machine-learning-advantage-2017-9>

Retail giant Walmart is going to deploy an GPU-accelerated cloud to be used for machine learning – that according to an investor note penned by Trip Chowdhry of Global Equities Research. The move is seen as a challenge to Amazon, which has eroded Walmart's retail business, and to AWS.

<https://www.top500.org/news/walmart-to-build-gpu-cloud-for-machine-learning/>

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“In the absence of reusable APIs, adding new visualizations to TensorBoard was prohibitively difficult for anyone outside of the TensorFlow team, leaving out a long tail of potentially creative, beautiful and useful visualizations that could be built by the research community,” software engineers Chi Zeng and Justine Tunney wrote in a Google Research blog post. “To allow the creation of new and useful visualizations, we announce the release of a consistent set of APIs that allows developers to add custom visualization plugins to TensorBoard.”

<https://venturebeat.com/2017/09/11/google-launches-tensorboard-api-to-enhance-machine-learning-visualizations/>

US spy agencies are pinning their hopes on artificial intelligence to crunch billions of digital bits and understand events around the world. Dawn Meyerriecks, the Central Intelligence Agency's deputy director for technology development, said this week the CIA currently has 137 different AI projects, many of them with developers in Silicon Valley.

<https://phys.org/news/2017-09-swamped-spy-agencies-artificial-intelligence.html#jCp>

Despite being all but locked out of China, Google is ramping up efforts to tap a vital technology resource in the country: engineering talent.

<https://www.ft.com/content/f2c83cda-91ee-11e7-a9e6-11d2f0ebb7f0>