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## What is GPUaaS, and is it a Valuable Service in the Cloud?

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### Infinite Contemporary Opportunities

What if the power of deep learning could be integrated into the cloud--not only advancing the way you currently use cloud computing-- but with a data center capable of providing equity for all of your business needs?

GPU as a Service (GPUaaS) is a computing platform by which this is now possible.

Also, GPUaaS as a computing solution is not only returning high-performance for your investment, it enables users to draw greater insights than heretofore imagined--and from any computing platform whether in-house or the cloud--saving a great deal on capital expenditures.

The exciting, key point here is that GPUaaS is one of the new artificial intelligence (AI) processors, a/k/a known as super-human intelligence.

Furthermore, GPUaaS is already changing the face of business, since your relevant, paramount assets are now conveniently located, on-demand, in all of the significant cloud platforms available--including ██████████ cloud solutions for the global enterprise.

### Historically Speaking

Interestingly, we have transitioned through forty-six years of dedicated, graphics hardware development and landed somewhere between The Jetsons and Star Trek on an open highway to the land of unlimited opportunity!

Traveling, from the 1970s--using video chips in order to accelerate an ability to draw graphics on a computer screen, to the evolution of the modern graphics processing unit (GPU) by the end of the 1990s--was an exciting trip!

However, it was nothing like the trip on which we have just embarked!

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## **AI—the Next Phase of IT**

Moreover, at the approach of the end of this second decade of the 21st Century, we are now looking at hardware that is capable of using algorithms to build atypical models--which enable computers to learn from data; a process called, "deep learning."

### **CES 2017**

Recently, the International Consumer Electronics Show (CES) 2017, was held in Las Vegas, and as their opening speaker, they featured Jen-Hsun Huang, founder, and CEO of [NVidia](#).

When Mr. Huang gave the opening address, He said, "When GPU technology met deep learning; artificial intelligence (AI) became a reality."

### **Some Things You May Not Yet Know**

In the first place, deep learning, using GPUs, allows software to write software, computers to learn from experience and data, and all of this is sitting on the horizon of global change in infinite ways.

Things are not moving--at the speed of light--but almost!

From the outset, the GPU platform has opened greater, data capabilities--emerging into super-human intelligence.

Remember the old Bounty towel commercial, where the towel--when laid down on top of a spill, soaks up the spill into itself without anyone touching the towel again?

This example is a lot like the way deep learning has taken to the GPU platform--sucking up its capabilities and spitting out wonders!

### **Deep Learning Without GPU**

In contrast, deep learning by itself requires layers upon layers of hierarchical learning. Huang said that "Computers learn from hierarchically building up information from simpler patterns.

"Layers of artificial images, artificial intelligence applied to vision, audio technology, natural language, etc. have to be built up," he added, and then he went on to explain that with GPU computing, we can now solve problems artificially that we never dreamed of or even considered.

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## **One Example of Deep Learning With GPU**

Making his point further, Huang used the example of AlphaGo, an AI game powered by Google-owned DeepMind, which recently beat the world, Go master player, Lee Sedol, of Seoul, Korea--3 to 1.

Significantly, in a recent, related article in Scientific American, we learned that "With this defeat, computers have bettered peoples in the last of the classical board games—games, which are known for both depth and simplicity. An era is over, and a new one is beginning."

The article further noted the opinion that "The methods underlying AlphaGo, and its recent victory, have startling implications for the future of machine intelligence." [Read more-](#)

## **Watch for Changes in the Work Force Environment**

In addition, Virtual Resources (VR) a/k/a virtual reality, along with [augmented reality](#) (AR) have a strong relationship in cloud computing, as it relates to performance intelligence and leading-edge data management. VR, designed to complement specific data information within relevant environments, now allows a worker to experience and manipulate the environment--as though it is their real world.

Coupled with AR, this experience "combines real and computer-based scenes and images to deliver a unified but enhanced view" of a scene, and then creatively draws conclusions and works out problems in substantially less time.

## **Some Other Possibilities to Get Your Imagination Going**

Again, AI is making formerly, only imagined conveniences--like driverless cars; wearable, treatable devices; effective, voice command technology (which is human computer interaction with smart consumer products); and many other innovations--including biotechnology, a reality!

As a result, areas like healthcare, security in the marketplace, and advances in the home and the office are all on the verge of being our everyday, exciting, new world!

## **Looking Back**

Very much like it was when the Industrial Revolution began in the eighteenth century--whether we are ready for it or not--we have just stepped into what we formerly thought of as--the future, and maybe, one day we will look back at this time--as the "Artificial Intelligence Revolution."

## What is GPUaaS, and is it a Valuable Service in the Cloud?

Always on the cutting edge of the industry, [REDACTED], is poised to help our clients discover and move into this amazing new world, which seemingly has no end to its potential.

Contact us to learn more. This time, the learning curve will be unbelievably exciting--every, single step of the way! END.

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