

CIO Advisor

LEVERAGING TECHNOLOGY FOR APAC BUSINESSES

MAY 2017



CIOADVISORAPAC.COM

Company:

Razorthink

Key Person:

Jack Porter
President & CEO

Description:

Provides the first Advanced Deep Learning AI Data Scientist solution, Big Brain that helps improving predictive customer insight

Website:

razorthink.com

TOP 25 APAC ARTIFICIAL INTELLIGENCE COMPANIES - 2017

The infiltration of AI is changing the landscape of modern business as enterprises are increasingly adopting AI. Businesses across all sectors are acknowledging the practical possibilities of AI. Researchers and service providers in the field are increasingly investing in maturing virtual agents, natural language understanding, deep machine learning, biometrics, robotics and automation, and neural networks. It is estimated that by 2018, 62 percent of enterprises will use AI technology. These are indications that we are going through a fundamental shift in doing business with AI technology. In such scenario, it is imperative for every enterprise to adopt and integrate AI to stay ahead of the business curve.

The application of AI is not limited to a specific domain or timeline; there is hardly any business which cannot be transformed by AI. Advancement in the field is powering the growth new technology such as IoT, chatbots, and intelligent machines. The hideous customer service, the complexity of unstructured data, keyword search and a lot of manual processes will be relics of the past with AI technology. AI technology makes business much faster and better and improves business in all respects. AI amplifies human potential and is powering the future of business.

Triggered by relentless innovation and fuelled with impeccable technology, many AI providers are set to release their service to power modern business. Our editorial team has done an extensive research to find out the top-notch AI providers that would transform businesses across all sectors. This edition of CIO Advisor presents the top 25 promising AI companies in the current market of APAC. We intend to bring out the best that would do undeniably well in meeting your business requirements.

Razorthink: Creating the First Artificial Intelligence Data Scientist

The goal is to turn data into information, and information into insights. This adage by Carly Fiorina aptly communicates the significance of data. While it's crucial for an organization to have access to data, it's even more critical to have the ability to analyze that data to drive actionable insights. Today this is a major concern for businesses due to the exponential growth of Big Data, which has surpassed human data scientists' capacity to analyze it. Many large-scale data analytics projects are stuck in pilots or are not feasible using human data scientists or machine learning.



Razorthink has combined High Performance Computing (HPC) with Advanced Deep Learning Neural Networks to create Big Brain, the first AI Data Scientist

In such a scenario, Artificial Intelligence is poised to be the new UI for the enterprise. "Companies need to rapidly analyze volumes of data in real-time and at scale—something not possible with traditional analytics systems and human data scientists," says Jack Porter, President & CEO of Razorthink.

Established in 2011, Razorthink is a pioneer in Enterprise Superintelligence and has developed the world's first AI Data Scientist, Big Brain. It solves two massive problems in Data Science. In today's large enterprises, core data systems produce terabytes of information every day. This is impossible for a human data scientist

to comprehend, let alone identify meaningful patterns. In addition, to model this data they must use sophisticated model architectures, with often times hundreds of layers deep. To select and optimize these models is way beyond even the best mathematicians' capabilities.

Big Brain excels at identifying complex problems with exponential variables over time. Unlike simple Machine Learning, Big Brain's Deep Learning AIs can identify patterns not described by humans, non-linear patterns, and patterns with thousands of variables.

Porter adds, "Razorthink's unique Artificial Intelligence techniques make it possible to build and continually optimize data models using machines, rather than having humans identify relevant features in raw data." Razorthink Big Brain takes the load off of human data scientists by selecting, tuning, testing, and optimizing data models much faster, for much larger data sets and at levels impossible by humans. It allows businesses to harness the power of Big Data in ways that were previously not possible.

Specifically, the Big Brain Data Optimizer integrates, refines, and intelligently encodes the data. Data is then formulated into tensors (multi-dimensional arrays) for AI data modeling. Big Brain's Model Optimizer selects the ideal model and then automatically tunes the parameters and hyper-parameters for each model through the Model Optimizer. Then Big Brain's Deployment Optimizer tells users how to configure the system in terms of number of services, amount of storage, software needed based on the task it has been assigned. Finally, Big Brain deploys the model to the cluster using sophisticated data parallelization and model parallelization.



Jack Porter,
 President & CEO

Razorthink works with some of the largest banks and telecommunications companies in the world. With the company's unique Customer Expert AIs, clients can predict customer behavior in real-time, giving them the opportunity to change the outcome.

Razorthink Expert AIs provide predictions on customer behavior with higher accuracy beyond what is possible with human data scientists. "Industry reports estimate that banks are losing customers at an average rate of 12.5 percent per year, while average acquisition rates are at 13.5 percent," says Porter. To address the situation, the company offers a Customer Expert AI for the Banking industry. Razorthink is also formulating Expert AI solutions for Telecommunications and Retail, which will reach customers this year. [GA](#)