

Algo for AI is This Startup's Code

Hot Startup

Arya.ai

Co offers deep learning algorithm for developers

Shashwati.Shankar
@timesgroup.com

Bengaluru: Mumbai-based Arya.ai offers its deep learning algorithms for developers to build intelligent AI systems that can adapt and do multiple things with minimal inputs from humans.

From creating a diagnostic assistant for radiologists to a mathematical assistant for science academicians and on to drone image processing abilities, the uses appear to be really diverse.

"We have already launched the advanced AI software tools in a closed group beta phase with developers internationally and researchers in select software companies, these developers are using these softwares for building robots that can assist professionals from different fields in

their task," said Vinay Sankarapu, cofounder of Arya.ai (in picture).

Arya.ai's API for developers can be used for four specific categories. From creating custom APIs to use cases within computer vision, this could range from classifying or searching for products on e-commerce platforms by using visual inputs to security based face matching techniques, as well as language and reasoning, where event prediction can take place.

Through their most recent product, DL Studio (Deep Learning), developers can build deep neural nets and scale it to large data. For instance within IoT, which can generate a huge amount of data on specific equipment, it can become complicated to use this vast amount of information and make predictions about the performance and health of equipment.

"Simply put, through DL Studio's use on IoT, it can make the machine more self aware and assist humans in making a conclusion, specifically by answering questions like what is the life time span of the equipment, when can it fail and other such questions that the deep learning al-

gorithm can help provide solutions too," says Sankarapu.

In simpler cases like security, when it comes to face-matching, DL Studio can identify an individual along with facial aging effects and the precise age of the person.

Other simple use cases include object segmentation, identifying the various objects in an environment and making the system aware and react to those specific objects, this can be used for more complex systems like drones.

In terms of security, international counterparts in the United States and Japan are focusing on creating face-recognition systems that could distinguish between people or track human behaviour. IPsoft-founded by Chetan Dube is another company that looks at optimising

information technology and business processes using autonomic and cognitive technologies, enabling engineers to automate routine tasks. "In terms of an artificial intelligence startup providing their system to developers to create assistants within any profession they could be the first, however it's still early stages," he adds.

Google, Amazon and Walmart are other big

names that have in-house labs working on similar technologies.

The most likely popular use case for Arya.ai's system is as a research companion's assistant within science, medicine and technology. For instance, a cancer medical researcher or a doctor asking a fairly complex question like "Which is a better test for colon cancer?" will get an immediate response from the artificial intelligence system, offering the doctor the options: "You could use a sigmoidoscopy, a fecal occult blood test or colonoscopy."

According to Devi Shetty, founder of Narayana Hrudayalaya, artificial intelligence software systems will be carrying out even diagnosis within the next five years in India's healthcare sector. He says: "Over the next 10 years, it will become mandatory to get a second opinion from a intelligent system before starting treatment."

By August, Arya.ai hopes to make a public launch of its services and provide its artificial intelligence system to create assistants in any profession.

The startup, which is focusing on automation, assistance and management for artificial intelligence systems, expects to get traction in areas like construction handling, banking security, diagnostic solutions in medicine and medicine manufacturing.

