

E-NEWS LETTER

Master of Computer Applications

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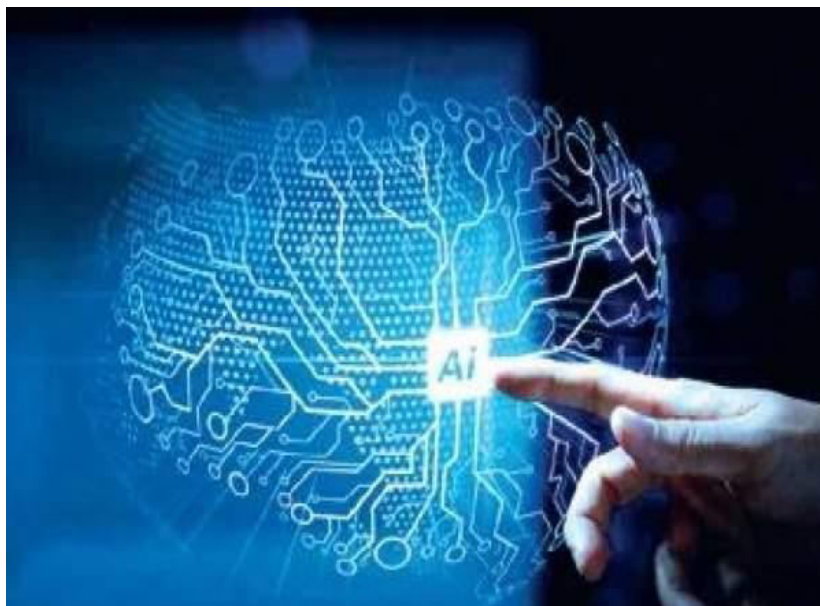
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LATEST UPDATES WORLD

Tweaking AI software to function like a human brain improves computer's learning ability:

Computer-based artificial intelligence can function more like human intelligence when programmed to use a much faster technique for learning new objects, say two neuroscientists who designed such a model that was designed to mirror human visual learning.



It explains how the new approach vastly improves the ability of AI software to quickly learn new visual concepts examples," says Riesenhuber.

"We can get computers to learn much better from few examples by leveraging prior learning in a way that we think mirrors what the brain is doing."

Humans can quickly and accurately learn new visual concepts from sparse data sometimes just a single example. Even three- to four-month-old babies can easily learn to recognize zebras and distinguish them from cats, horses, and giraffes. But computers typically need to "see" many examples of the same object to know what it is, Riesenhuber explains.

The big change needed was in designing software to identify relationships between entire visual categories, instead of trying the more standard approach of identifying an object using only low-level and intermediate information, such as shape and color, Riesenhuber says.

"The computational power of the brain's hierarchy lies in the potential to simplify learning by leveraging previously learned representations from a databank, as it were, full of concepts about objects," he says.

Riesenhuber and Rule found that artificial neural networks, which represent objects in terms of previously learned concepts, learned new visual concepts significantly faster.

Rule explains, "Rather than learn high-level concepts in terms of low-level visual features, our approach explains them in terms of other high-level concepts. It is like saying that a platypus looks a bit like a duck, a beaver, and a sea otter."

The brain architecture underlying human visual concept learning builds on the neural networks involved in object recognition. The anterior temporal lobe of the brain is thought to contain "abstract" concept representations that go beyond shape. These complex neural hierarchies for visual recognition allow humans to learn new tasks and, crucially, leverage prior learning.

"By reusing these concepts, you can more easily learn new concepts, new meaning, such as the fact that a zebra is simply a horse of a different stripe," Riesenhuber says.

Despite advances in AI, the human visual system is still the gold standard in terms of ability to generalize from few examples, robustly deal with image variations, and comprehend scenes, the scientists say.

"Our findings not only suggest techniques that could help computers learn more quickly and efficiently, they can also lead to improved neuroscience experiments aimed at understanding how people learn so quickly, which is not yet well understood," Riesenhuber concludes. This work was supported in part by Lawrence Livermore National Laboratory and by the National Science Foundation Graduate Research Fellowship Grants.

STUDENT'S CORNER

Poet's dream:

You cannot change your future, but you can change your habits, and surely your habits will change your future."

"Difficulties in your life do not come to destroy you, but to help you realize your hidden potential and power, let difficulties know that you too are difficult."

"Don't read success stories, you will only get a message. Read failure stories, you will get some ideas to get success."

Amit Kumar

DEPARTMENT ACTIVITY

1. Wall Magazine:

On 7 January, 2021 MCA first year students took the initiative in club activity and presented a Wall magazine with 4 different sections and revealed their creative ideas. The sections included some information about current technology i.e. block chain , a completely

different section for the trending technologies was also presented in it and for the information regarding students welfare, a section was provided which included names of 3 students, selected on the basis of their performance in that particular month.



The last section was for the E-News Letter which included all the information about the previous month activities.

Last but not the least hard work and dedication of students & teachers resulted in great appreciation by teachers and students throughout the college.



2. Zero hour activity on 14 January 2021 (G.D. on Entrepreneurs are born or made):

Venue - MCA Seminar Hall

Group discussion refers to a communicative situation that allows its participants to share their views and opinions with other participants or

Group discussion is a systematic exchange of information, views and opinions about a topic, issue or situation among the members of a group who share some common objectives.

On 14 January-2021, MCA department conducted a group discussion on qualities of entrepreneur in the presence of faculty members (Mr. Arvind Kumar Mishra & Mr. Vijay Kumar Dubey). Students shared their views on **“Are entrepreneurs born or made?”**.

Event started by making two groups of students. The discussion started with group A, where one by one student shared their opinions on what are the qualities of entrepreneur and how one can be an entrepreneur and on the contrary, the students of group B presented their opinions.

This group discussion went on with the individual ideas of the group and the faculty members also shared their valuable thoughts to the students: *that It doesn't matter if you have never started a business before, or have started and failed, or come from a non-entrepreneurial family or background. If you feel you might have some of the above traits, have a business idea or are simply attracted by the prospect of starting out on your own, just go ahead and do it. At the end, the conclusion came out to be that Entrepreneurs are both born and made.*

3. Zero hour activity on 28 January, 2021 (C-Coding Skills Phase -1):

MCA department organized C-coding skills competition in the zero hour activity in which students were divided into three groups.

They were given the sheet on which some codes were written in C-language and they had to understand those coding questions and find the correct output.



Group 1st emerged out as a winner followed by the second and third group. This event was conducted under the supervision of MCA faculties Mr Arvind Kumar Mishra and Mr Vijay Kumar Dubey.

COLLEGE UPDATE

Republic day celebration and scholarship distribution (26-January, 2021)

Shri Ram Murti Smarak College of Engineering and Technology, Bareilly celebrated 72nd Republic day with enthusiasm and honorable Chairman Sir hoisted the national flag with respect and faith in our constitution, which was followed by the National Anthem.



The entry level scholarship was distributed by the **Honorable Chairman Sir** to the deserving students of MCA first year on the basis of UPSEE rank. **Ashutosh Maurya, Gitanjali Joshi, Jaswant Singh and Sachin Saxena** received the scholarship.

