

TINKER TIMES

SRI SRI ACADEMY IN ITS POLICY TO ENCOURAGE CREATIVITY AND INNOVATION IN ITS STUDENTS

FEATURED THIS MONTH:

SSA HACKATHON

STUDENT AND MENTOR SPEAKS

TECHNOLOGY AROUND YOU

DIY



INTRODUCTION

SRI SRI ACADEMY

Sri Sri Academy, Kolkata on its journey towards Innovations, creativity and tinkering in collaboration with Rabvik Innovations, has added a feather on its cap by arranging the first-ever edition of the intra-school

Hackathon 2020. The Atal Tinkering Lab which was previously operational with class 6,7 and 8th standard has now expanded to classes 9th and 10th standard as well. Post successful completion of

Hackathon, students are now being encouraged for publishing their projects so that it eventually helps them for the student-entrepreneurship with their own patents for their projects.



HAPPENINGS AT SSA

Sri Sri Academy, Kolkata in collaboration with Rabvik Innovations organized SSA Hackathon 2020 on 18th and 19th September 2020, in the virtual platform. A panel of eminent judges including the Founder Principal of Sri Sri Academy were present to select the top seven innovative ideas of the students. In this live event, the student's video was displayed based on the innovative ideas and it was followed by the question-answer session where the jury members interacted with the students to help them and guide them throughout.



SSA Hackathon 2020

You are cordially invited to join us virtually on 19th of September, 2020 at 3pm for the final round of SSA HACKATHON 2020, an intra-school competition to encourage innovative project ideas by the students.

JURY MEMBERS:

- ♦ Ms. Suvina Shunlu – Founder Principal of Sri Sri Academy
- ♦ Dr. Neeladri Chatterjee – Founder of Rabvik Innovations
- ♦ Prof. (Dr.) Jyoti Sekhar Banerjee – Innovator
- ♦ Mr. Shubhayan Sengupta – Consultant & Mentor, Ex-IBM Engg.
- ♦ Mr. Sidhartha Mukherjee – OB/OD/Service Law Consultant, Ex ED (HR) IndianOil

Date: 19th September, 2020 Saturday, Time: 3pm

*Please join using the link provided.
**Please download Microsoft Teams app if you are using mobile phone

SRI ACADEMY www.ssa.org.in **RABVIK INNOVATIONS** www.rabvik.com

The student's presentation was evaluated based on the following criteria- Originality of Concept, Application of concept, Practicality of concept, Social usefulness and student's confidence and ability to counteract the questions during interaction with the Jury members. The results were announced on 19th September, post completion of the question answer session and the top seven students whose innovative ideas were selected are:



THE TOP SEVEN INNOVATIVE PROJECTS	
DEVANSH SARAF	10B
AYUSH MONDAL	7F
RISHAV MAJUMDER	8C
HANSRUDH GUPTA	9C
PRAPTI MALICK	7D
ISHIKA AGARWAL	7E
HARSHIT SEKHSARIA	7E

STUDENT SPEAKS

"The students got to know their defects or temporary weaknesses of their respective projects, not only did the judges helped the students identify the weakness of the project they also interacted with the student to help them make their projects perfect. As a student i got to know the strengths and weaknesses of my project too. This was one of my best experience so far as a student innovator because the experience I gathered from continuous practices to the question answer session of the final day was of utmost importance. I also must appreciate and thank Rabvik Innovations for collaborating with us and making "SSA Hackathon 2020" a grand success though it was on a virtual platform. I dearly thank the efforts the judges had put in it as to see the invention of each student and help them make it better."

-Mitadru Dasgupta, 8F, Sri Sri Academy, Kolkata.



MENTOR SPEAKS

"Even during the widespread COVID 19 pandemic, we never stopped. Our labs remained operational and the enthusiasm of the students is what inspired us to conduct the SSA Hackathon 2020. The immense response from the students we received has increased our expectations that in the future editions of Hackathon we are expecting even more number of innovative project ideas." -Abhishek Biswas, ATL-in-Charge, Sri Sri Academy, Kolkata.a.

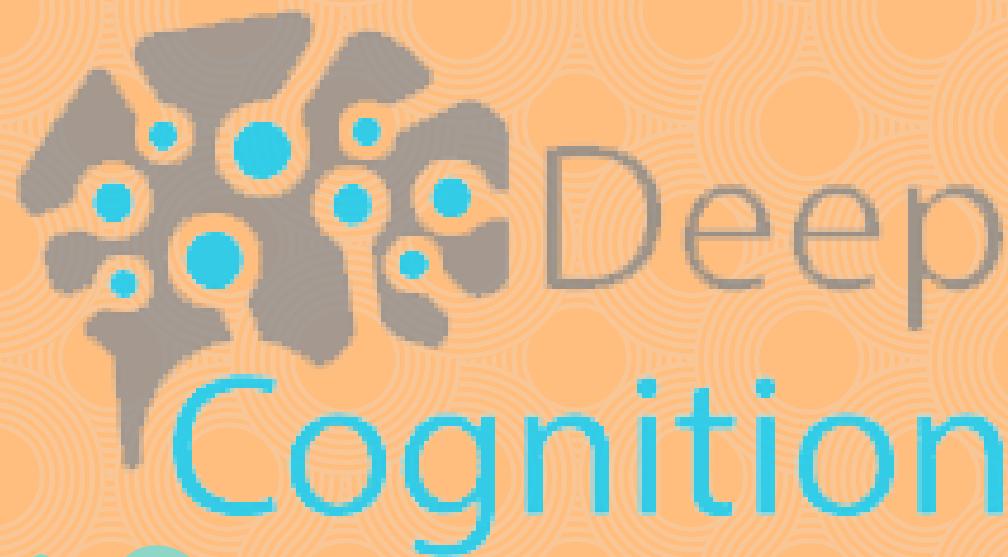


TECHNOLOGY AROUND YOU

Deep Cognition to use drag and drop deep learning models without coding:

With the advancement of Technology and implementation of Artificial Intelligence, Deep Learning is an integral part and its contributions are immense. An increasing research and development for the no-code platform is for Deep Learning. There are a lot of platforms that support machine learning and data processing like Data visualization, processing, etc. But fewer platforms focus on deep learning and DeepCognition is one such platform.

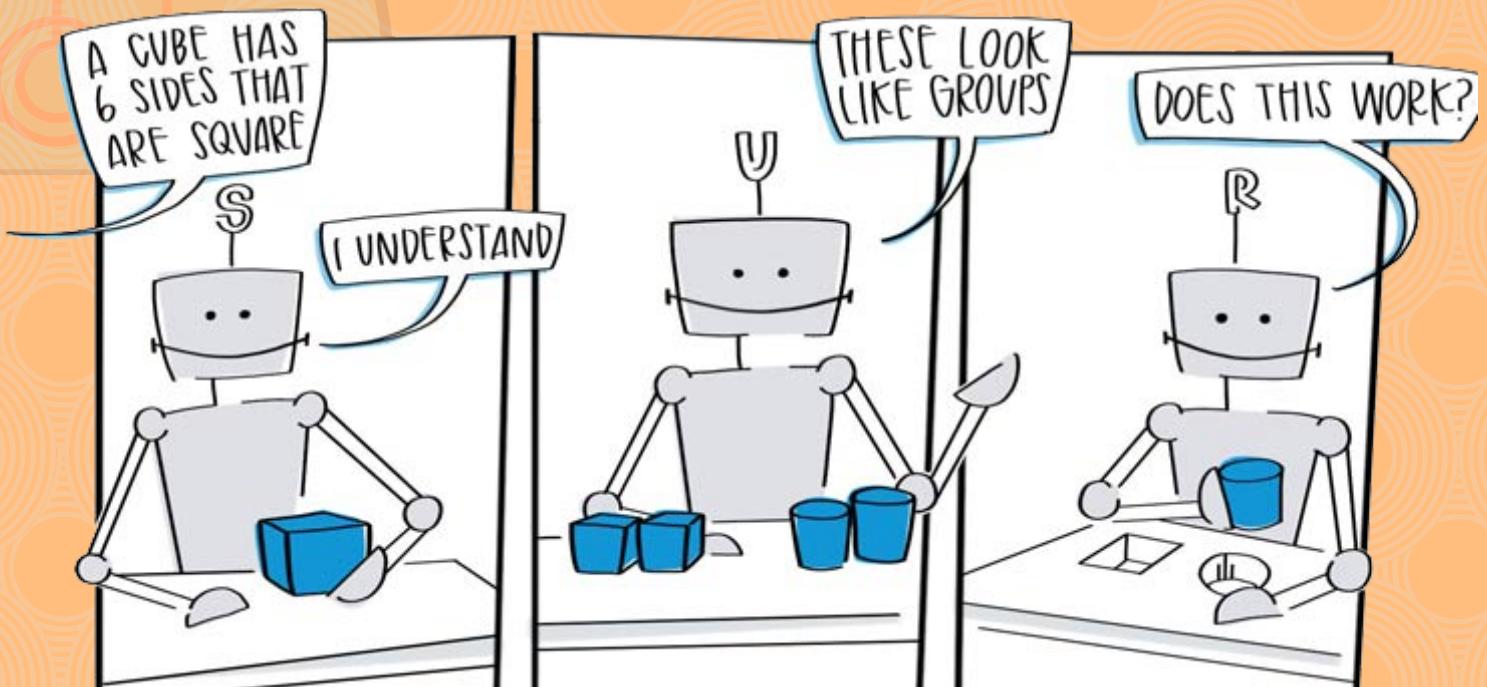
Machine Learning is based on the algorithms that improve itself automatically through experience. It can be called as a subset of Artificial Intelligence. They are built on algorithms that are based on the sample data also known as “training data”. In order to make decisions or predictions without explicitly being programmed to do so.



Deep Cognition was developed with an aim to create and deploy deep learning models by just clicking on buttons and no coding at all. The problem they are trying to solve is to overcome the shortage of expertise in AI that is creating barriers in organizations in the adoption of AI and make deep learning accessible to all.

In this particular system, we only design the models by dragging and dropping the buttons while the code is generated at the backend automatically. This graphic user interface based model is of great use for non-programmers and business analysts to work on deep learning projects with ease and for free of cost.

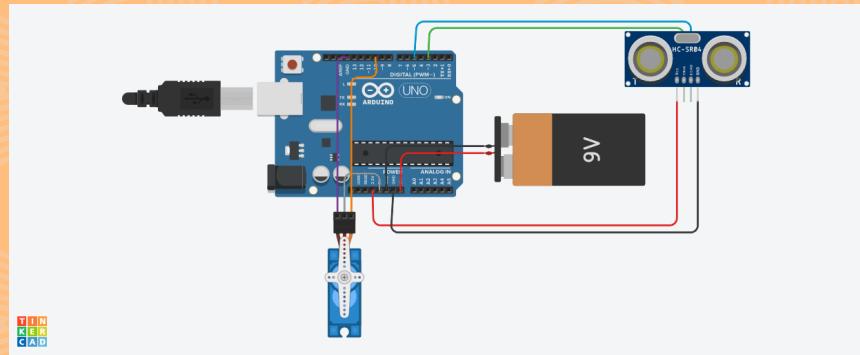
MACHINE LEARNING



DO IT YOURSELF

The most interesting thing that you all can do during this pandemic time is building your own automatic hand sanitizer machine at home. You need only one Arduino Uno board, one ultrasonic sensor, a servo motor, a few jumper wires (M-F), an old water bottle, plastic pipe and some sanitizer liquid.

Setup the circuit as shown in the given figure :



You can refer to any of the codes available on internet or you can contact us for more details. Fix the rotation of the servo motor at 120° angle so that every time your hand comes in front and sensed the servo rotates at 120° and the liquid is dispensed from the bottle.



Your ultimate product will look somewhat like this

ABOUT US

Rabvik Innovations aims to train and prepare the next generation of robotics, scientists, and engineers innovative enough to push the envelope and be creative enough to achieve the impossible.
Rabvik Labs prepare the students for a toe-dip in the pool which will become an ocean in a few years and will also allow them to get real-life experience in the world of robotics, automation, AI, and IoT.



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