



A blended learning initiative by Opencube Labs



| About Us



OCL Learn is an innovative blended learning platform by Opencube Labs(OCL). OCL Learn provides curated learning experiences for all age groups from kids to professionals. Our programs are designed by embracing the power of AI and currently focuses on Artificial Intelligence, Data Science, Blockchain, IoT, Space Education and Design Thinking.





OCL Space

OCL Space is the New Space division of Opencube Labs. OCL Space is currently focusing on Do-it-Yourself(DIY) Stratospheric Satellites and High Altitude Ballooning(HAB) projects.



OCL Space



These programs are designed to encourage Space Technology research among students. Participants in a very economical manner can build and launch near-space missions at the end of our sessions along with performing data analytics.

CanSat Development Program (CDP)

CanSat Development Program(CDP) is a 2 days workshop giving practical hands-on experience to students to conduct their small scale space missions. The workshop lets participants build their satellite with their choice of payload and then these microsattellites can be launched with the help of weather balloons or sounding rockets.

A CanSat is a simulation of a real satellite, integrated within the volume and shape of a soft drink can. CanSats offer a unique opportunity for students to have a first-hand practical experience of a real space project. CanSats are very helpful in carrying out scientific experiments.

The program agenda includes an overview of microsattellites, CanSat structure design, CanSat modules, sounding balloons, rockets, parachute design and open hardware platforms.

OCL CDP Kit is provided during the workshop and it comes with all the required materials for the sessions.

OCL Space

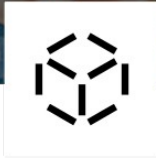


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Space Technology Awareness Program (STAP)

Space Technology Awareness Program (STAP) is a 1-2 days workshop designed for kids in the age group of 9-14 years promoting space technology awareness among younger minds. The program includes sessions on open hardware platforms to design and build quick hardware projects, understanding fundamentals of space vehicles, parachute design sessions, laws and metrics of outer space, understanding environments outside of Earth, fundamentals of a rocket using water rockets, the understanding night sky and how to see from an eye of an astronomer.

STAP Kit is provided during the workshop and it comes with all the required materials for the sessions.



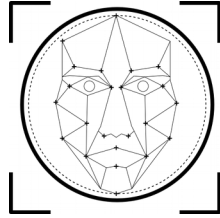
OCL Learn4Kids

Learn4Kids is specially curated learning experiences for kids in the age range of 9-15 years old. The programs include Space Technology awareness, Coding, AI, IoT and Design Thinking.



OCL Learn4Kids

Learn4Kids programs are designed in a blended learning structure with partial delivery of content through our online platform. Each program can be executed in 2-3 days. The participants are engaged and recognized using digital badges.



AI4Kids

AI4Kids is an initiative from OCL Learn to bridge the digital literacy gap among young minds related to Artificial Intelligence. This program provides a first-hand experience of AI to participants by building mini-projects. AI4Kids is a perfect program to bring science fiction to reality for participants.

Participants get engaged with AI-based mini-projects like human face analysis, comparing human faces, building chatbots, converting text to speech and playing games using AI capabilities like hand gestures or face movements.

Participants need to get a webcam-enabled laptop during the session.

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IoT4Kids

The world is going to have 100B+ devices connected to the internet by the end of 2020. The younger generation is going to engage with these kids more and more now. IoT4Kids helps participants understand how connected devices work and understand the safety factors.

Participants get engaged with IoT-based mini-projects. These projects include building hardware projects with colourful LEDs and multiple sensors like light, temperature, humidity and buzzer. Connecting these sensors to the internet, remotely recording sensor data and performing wireless operations.

IoT4Kids kit is provided to participants during the session. Participants need to get a webcam-enabled laptop during the session.

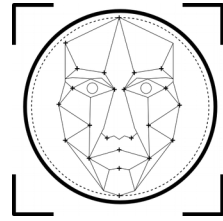


OCL Learn: Institutions & Professionals

We specialize in delivering professionally curated programs in Artificial Intelligence, Blockchain and IoT. The programs are rated one of the best and our learners work at top organizations like Flipkart, Swiggy & Sony to name a few.

OCL Learn: Institutions & Professionals

These programs are designed in a blended learning structure with partial delivery of content through our online platform. Each program can be executed in 2-5 days or can be customized. The participants are engaged and recognized using digital badges.



AI4Kids

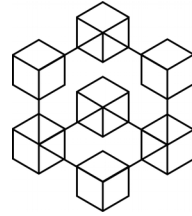
Artificial Intelligence(AI) as a domain is the need of the hour. AI is not here to replace humans but to help us be more efficient. Having these skills is most important and are in high demand.

Topics covered in the program are AI history, mathematics for AI, overview of open data & data science, practical Python programming, numerical computing using Numpy, data visualization using Matplotlib, machine learning types and algorithms, practical implementation using Scikit, artificial neural networks & deep learning, CNN, RNN, ANN architectures, Tensorflow & Keras. We also discuss various use cases of AI and Data Science using open data and AI for good possibilities.

Participants need to get a webcam-enabled laptop during the session.

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Understanding Blockchain

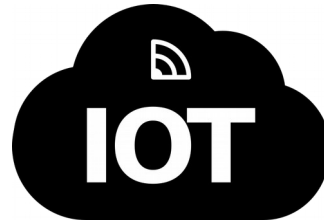
Blockchain is termed as the future of the internet. Its a sophisticated technology bringing transparency and security to data storage in a decentralized manner.

Topics covered in the program are Blockchain fundamentals, Distributed Ledger Technology(DLT), Bitcoin Blockchain, Ethereum Blockchain, cryptography, consensus algorithms, types of chains, smart contracts, building private blockchains using Multichain and Geth, Hyperledger projects and IPFS protocol. We also discuss various use cases of Blockchain technology like cryptocurrencies, supply chain, identity management, digital credentials, etc.

This program can be delivered for technical as well as the non-technical audience.

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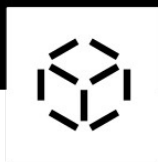
Internet-of-Things

IoT is no longer a buzz word and whole Industry 4.0 is dependent on it. We are moving towards smart cities with the help of IoT now. Our hands-on IoT program helps participants get started with building IoT products (both hardware and software).

Topics covered in the program are IoT product architectures, security in IoT, building wireless sensor network using ESP & LoRa, understanding IoT communication protocols, deploying cloud applications, interacting with hardware sensors from the cloud, data analytics on top of collected data and building dashboards.

IoT hardware kit is provided during the session.

DIY



OCL DIY Kits

OCL Do-It-Yourself kits are perfect learning tools for any age group. Our kits are made of complete open hardware and Commercial-off-the-shelf(COTS) and come with detailed guidance materials. These kits can be customized depending on individuals/organizations learning goals.



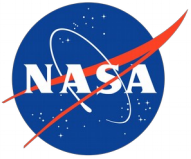
Top 10 Makers in India

At Maker Mela 2019, India's Largest Maker Gathering

Maker Mela

Winner

International NASA Challenge



Supported By



Our Partners



7000+

Learners trained

1000+

Learners transitioned
in their job

59%

Increase in engagement and motivation
among learners using blended learning

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Let's Connect

And start a new learning journey for your organization

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