

MAKING STUDENTS AI-READY



# AI, ROBOTICS & 3D PRINTING

This Summer, turn towards Emerging Technologies to have a fun-filled learning experience. Data Science and AI are evolving as essential skills for students to be relevant and future-ready. Give a chance to your child to catch up and engage with emerging technologies. This mentor-led program includes Career Building Assessment and counselling.

-  2-Weeks Duration
-  10 Sessions
-  20 + 10 Hours
-  Online & Offline Options
- ...
-  Mentoring & Counselling



Trainer-Led



Dashboard



Real-life Projects



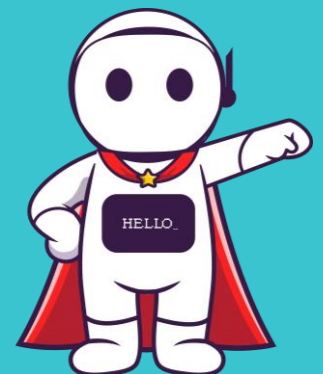
Certification



Challenges



FREE Career Assessment



“Convert Digital Inclination  
to Digital Skills”

SchoolforAI  
**AITINKR**

# ABOUT THE CAMP

AI Program focuses on teaching children the concepts of Emerging technologies along with hands-on experience, using both Block and text coding. This unique combination helps students not only have fun but also gain serious coding skills. Why stop with Block coding when students could solve real-time social problems using AI solutions? Project-based learning is the key to effectively transforming knowledge into skills. Through this program, we intend to transform the students' perception and approach towards Artificial Intelligence.

SchoolforAI is India's first Data Science & AI-focused unique platform that includes both online mentor-led & self-paced e-learning for students of Grade 7 and above to gain an edge over emerging technologies through experimental & hybrid-learning pedagogy.

## LEARN AT YOUR CONVENIENCE

Select **ONLINE** or **OFFLINE** option as per your learning needs. Online students receive a kit on a returnable basis. Mentors would guide students through project-based learning helping them to understand concepts with clarity.



**Kit-based Learning**  
(Online & Offline)

₹ 8,499\*

- Online Participation
- Receive Kit @ Home\*
- Economical Pricing
- Personal Dashboard
- Doubt Sessions
- Mentor-Led Online Class
- Supporting Videos
- Expert Interaction

ONLINE MODE

₹ 9,999

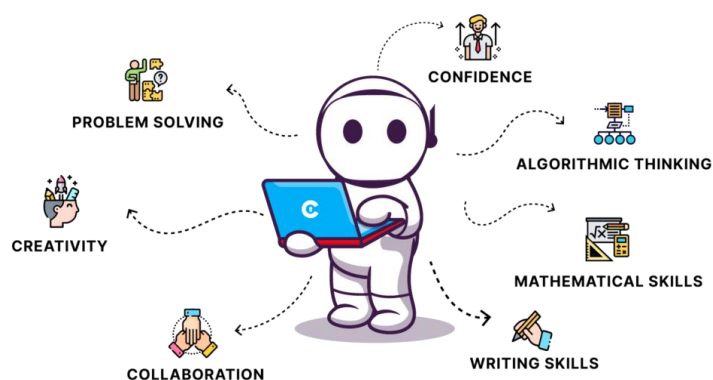
- Offline Participation
- Daily in-person Class
- Personal Dashboard
- Mentor-Led Program
- Work with Groups
- Doubt Sessions
- Videos for learning
- Expert Interaction

OFFLINE MODE

\* Kit on a Returnable Basis. Deposit Apply.

## WHY AI FOR STUDENTS

AI is not just for science-inclined students. It is an essential technical skill for all 21<sup>st</sup>-century children. No career in the world that has not benefited from AI solutions. Be it Astronomy, Marketing, or Healthcare organizations are investing heavily in AI technologies. This makes it relevant for the students to acquire these skills, irrespective of their career choices. Learning AI builds holistic skills in the students which would be handy in solving life and societal problems, to be a true global citizen.



### ENROLL

Summer camp was specifically designed for you to step into the world of Artificial Intelligence

### LEARN

Program covers essential concepts and technology to make you AI-ready

### ENGAGE

Trainer led program with project based learning to engage you with relevant skills.

### AI4GOOD

Showcase your learning by solving the real-time social problems using AI solutions



# Detailed Curriculum

## Week1: AI Freshman

### Robotics - Sensors & Microcontrollers

- Introduction to Robotics
- Sensors & Output Devices - Working Principles
- Understanding Arduino Uno & ESP
- Building projects on Breadboard
- Thought Experiment - Sensors for problems
- Arduino Architecture

### Algorithm Thinking & Programming

- Python Variables, Sequences, If & While, etc
- Reading Sensors, Serial Monitor, Output Devices
- IDE & Coding Microcontroller
- Working in input and output Sensors
- Programming Assignments
- Build projects

### Home Automation

- Introduction to Automation Concept
- Sensors for Home Automation
- Fixing Sensors & Wiring
- Coding as per the Requirement
- Building a Working Model
- Thought Experiment - Customizing/Personalizing

### Building a Robotic Arm

- Two Modes - Fixed and Programmable
- Mobile Application controlled
- Understanding Hardware & Software
- Tuning Servos for Arm control
- Building a Working Model
- Thought Experiment - Industrial Arm

### AI - Intro, Opportunities & Challenges

- AI in Real-life - Rule & Learning-Based Systems
- AI-Perception & Data-Centric Approach
- AI4Good
- Ethics, Biases and Challenges with AI
- Thought Experiment - AI Applications
- Thought Experiment - Encountering Challenges

## Week2: AI Sophomore

### Decoding ML & Data Science

- Supervised and Unsupervised Algorithms
- 5-Stage Approach to Data Science
- Libraries for ML
- Model building
- Project - Regression
- Project - Classification

### Deep Neural Networks

- Perceptron, Neural Networks, ANN, CNN
- CV - Block Coding
- CV - Face Detection and Identification
- Chatbots
- CV-Based Real-Time project
- Designing a Chatbot

### 3D Printing - Designing Concepts

- Introduction to 3D Printing
- Tinkering with TinkrCAD
- Designing Principles - 2D Vs 3D, Axis, etc.
- Prototyping an Idea
- 3D printing practice
- Designing a tool/product

### 3D Printing - Live Printing

- Reviewing Student Designs
- Peer Review and Improvements
- Understanding Filaments & Specifications
- Limitations of 3D Printing
- Print your 3D Design
- Thought experiments - 3D in Space exploration

### Competitions & Closing Event

- Machine Learning based Prediction
- CV-based Access Control
- Building & Training a Chatbot
- Leader Board & Certificates
- FREE Career Building Assessment (Gr8 +)
- AI4Good Project

DAY 1

DAY 2

DAY 3

DAY 4

DAY 5



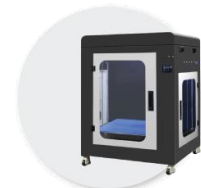
Artificial  
Intelligence



Bot Building &  
Coding



Home Automation  
Project



3D Design &  
Printing

“Get Qualified for Hackathons & Internship Program

**Gifts & Scholarships**

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**Gifts, Scholarships, Internships for grab**









**Free Joining Kit**



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**SCAN TO REGISTER**



-  2-Weeks, 10 Sessions
-  Online / Offline
-  AI4Good Projects
-  Mentoring & Support
-  20 + 10 Hrs Engagement
-  Trainer-Led
-  Hackathon Invitation
-  Certification & Goodies

## 5 Core Areas of AI Applications

Simplifying the understanding of the purview of AI through analysis of its 5 core applications, thus simplify the learning and encouraging experiential learning – Explore the world of AI from Data Science to Deep Learning.



**ENGAGE | APPLY | EXCEL**



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