

MAKING STUDENTS AI-READY



# SUMMER "AI-BOTICS" CAMP!

2025

## AI, Robotics, IoT, & 3D Printing

This Summer turn towards Emerging Technologies to have a fun-filled 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



30 Hours Engagement



Online & Offline Options



Mentoring & Internship



Trainer-Led



Dashboard & Videos



Real-life Projects



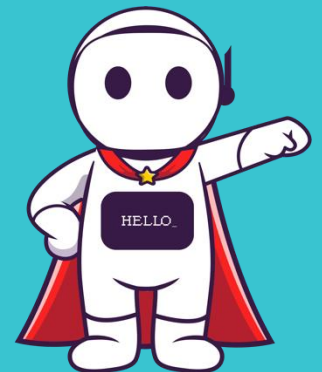
Certification



Varying Challenges



FREE Career Assessment



"Convert Digital Inclination  
to Digital Skills"

# 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.

## 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)

₹ 13,500

- Kit-based Learning
- Receive Kit on Returnable Basis
- Refundable Deposit Included
- Join Live Online Sessions
- Complete Projects & Showcase
- Dashboard with Videos
- Internship Option

**ONLINE MODE**

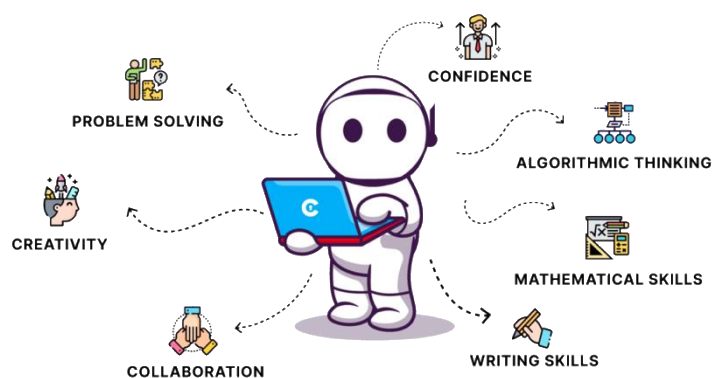
₹ 11,500

- Attend Live Sessions in-person
- Hardware & Equipment included
- Work with Peers & Learn
- Individual and Group Projects
- Dashboard with Videos
- Daily and Weekly Assignments
- Internship Option

**OFFLINE MODE**

## 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.

### AIMGOOD

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 Microcontrollers
- Programming Projects
- *Thought Experiment - Sensors for problems*
- *Microcontroller Architecture*

### Python Block Coding

- Python Variables, Sequences,
- If condition & Control Loops (While)
- Practical Python Block Coding
- Block to Text Coding
- *Programming Assignments*
- *Build projects*

### Bot Building

- Introduction to Mobility Bots
- Build Obstacle, Pit, Wall & Line Follower Robots
- Humanoid Bot (ZooP)
- Coding as per the Requirement
- *Building a Working Model*
- *Thought Experiment - Customizing/Personalizing*

### Humanoid Bot - Level 1

- Understand Humanoid Bots
- Servos control and movements
- Witness Building a Humanoid Bot
- Coding & Servo Tuning
- *Building a Working Model*
- *Thought Experiment - Industrial Arm*

### SMART Home & Automation

- Introduction to ESP32 & IoT Concepts
- Home Automation Vs Smart Home
- Sensors for SMART Home
- Coding - Automation & SMART
- *Building a Working Model*
- *Thought Experiment - Customizing/Personalizing*

## Week2: AI Sophomore

### 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*

### 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 / Similar
- Designing Principles - 2D Vs 3D, Axis, etc.
- Prototyping an Idea - Live Printing
- *3D printing practice*
- *Designing a tool/product*

### Intro to CV & Real-Life Applications

- Computer Vision in Action
- Learn CV-Sort Bot
- Understanding Training & Testing
- Model Deployment & Tuning
- *Other CV Applications*
- *Thought experiments - AI in Real-life*

### Competitions & Closing Event

- Project & Assignment Submission
- Top Presentations
- Leader Board & Certification
- Chill time
- *FREE Career Building Assessment (Gr8+)*
- *AI4Good Project*

DAY 1

DAY 2

DAY 3

DAY 4

DAY 5



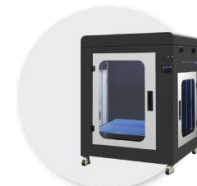
Artificial Intelligence



Bot Building & Coding

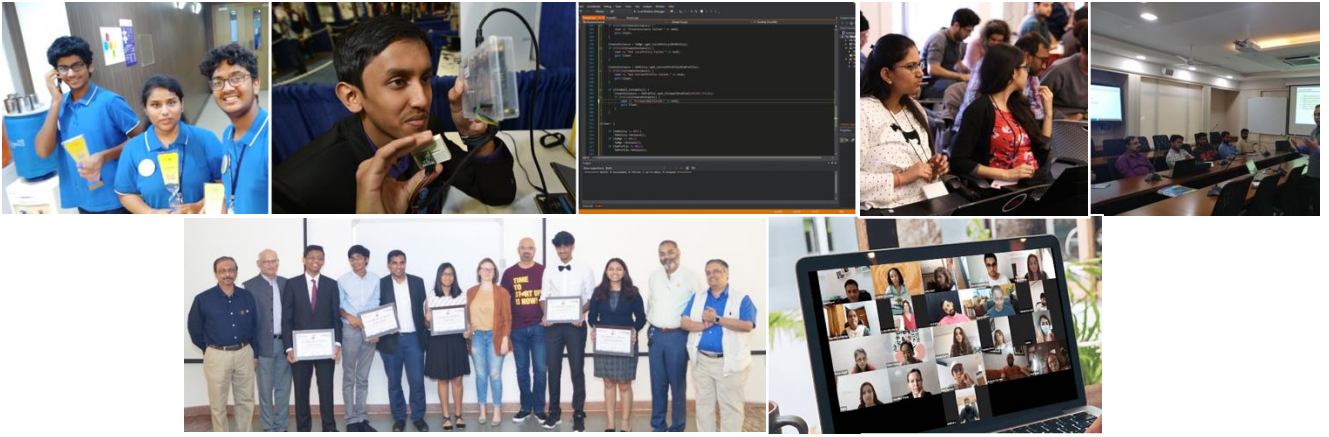


SMART Home Project



3D Design & Printing









“Get Qualified for Hackathons & Internship Program



ENGAGE | APPLY | EXCEL



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www.aitinkr.com

-  2-Weeks, 10 Sessions
-  Online Trainer-led
-  AI4Good Projects
-  Mentoring & Support
-  30 Hrs Engagement
-  Hybrid Learning
-  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.



SCAN TO REGISTER



Gifts, Scholarships, Internships for grab

Gifts & Scholarships



Free Joining Kit

