RANCHO LABS

Backed and Funded by

Technology Innovation Hub of IIT Delhi, IHFC

Artificial Intelligence Bootcamp

● LIVE Online

Join us for an immersive learning experience this boot and discover the limitless possibilities of Artificial Intelligence with Rancho Labs
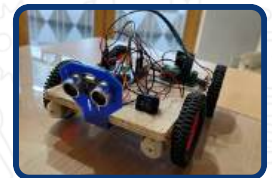
For Grades
6th to **10th**

OUR STORY

We are a group of passionate individuals committed to offer a memorable and impactful learning experience to enhance the interest of students in the field of technology. Started by **IIT Delhi alumni and professors** in 2019, we are a company that aims to ignite curious minds and shed light on flourishing career paths in Artificial Intelligence, Coding, and Robotics through experiential learning.

Supported by the Technology Innovation Hub of the Indian Institute of Technology Delhi. Rancho Labs has built a reputation for being reliable and is trusted by 10,000+ parents and innovators worldwide.

1
DEC 2019
Foundation of RANCHO LABS and Collborated with Rotary International

2
APR - AUG 2020
Launch of year long Coding, Robotics & A.I. curriculums. Siddharth got Awarded(Pradhan Mantri Rashtriya Bal Puraskar)

3
JAN - AUG 2021
Conducted Coding, Robotics & A.I. workshop for 150+ schools across India

4
MAY 2022
Incubated and funded by IIT Delhi Technology Innovation Hub

5
JUNE - SEP 2022
Conducted Innovation Exhibition at IIT Delhi & started offline centres at IIT Delhi

6
DEC 2022
Implemented Robotics Programme for Delhi Education Board

6
FEB 2023
Started our 2nd offline Robotics centre at Gurgaon

What is this Camp?

Rancho Labs, an IIT Delhi-backed startup, is excited to announce its Artificial Intelligence bootcamp is for students! The bootcamp curriculum is designed to cater to students of all skill levels. Students will gain a solid understanding of programming concepts with a comprehensive introduction to AI, one of the most innovative and promising areas of technology today.

Our bootcamp provides an interactive learning experience that encourages collaboration and teamwork. Students will work on group projects and coding challenges to apply their newfound knowledge and skills. Our instructors are experienced educators and industry professionals who are passionate about sharing their knowledge and expertise with students.

The program provides a solid foundation in Python programming and an introduction to AI that will prepare students for future careers in technology. Rancho Labs is dedicated to providing an immersive learning experience that fosters growth, curiosity, and collaboration. We welcome all students who are eager to learn and passionate about technology to join us on this exciting learning journey.

Who is this Camp for?

The Artificial Intelligence bootcamp by Rancho Labs is designed for students who are passionate about technology and eager to learn new skills. The program is tailored to students of all skill levels, whether they are beginners in programming or have some prior experience.

The program is suitable for students who are interested in learning the fundamentals of Python programming language and its applications. It is also ideal for students who want to learn about Artificial Intelligence.

Future Innovators **Sharp Brains** **Tech Enthusiasts** **Practical Learners** **Problem Solvers**

Bootcamp Syllabus

Grade 6th to 8th

Session	Topic	Project
1	• Introduction to Google Colab • Input and Output in Python • Variables, Data Types • Operators	simple calculator
2	• Using if and else • Random Number Generation	Random number guess game
3	• Arrays, Tuples, Sets, and Dictionaries	pattern generation
4	• Loops (For, While, and Nested)	Indexing Demonstration
5	• Understanding and Making a Simple Regressive Game	Regressive Game
6	• Introduction to Chatbots • Creating a Tulip Dictionary Chatbot Using Collab	Simple Chatbot
7	• File Handling (Reading/Writing Files) • editing the data in file	file handeling
8	• Integrating File Extensions for Enhanced Chatbot Functionality	Upgraded Chatbot
9	• Introduction to Streamlit • Creating a Simple Web Application	Webpage Implementation

Session	Topic	Project
10	• integarting streamlit with chatbot	Web Chatbot
11	• Building an Advanced Chatbot with API Integration	Advance Chatbot
12	• Understanding Dijkstra's Algorithm • Developing a Shortest Path Finder for Real-World Applications	Shortest Route Finder

Program Details

- The bootcamp comprises of over 22 hours of live online sessions of 120 minutes each, encompassing a blend of lectures, demonstrations, and interactive activities.
- Homework assignments will be given after each class to reinforce learning and enable the practice of acquired skills.
- Doubt sessions will be available to address any questions or uncertainties. The program spans a period of 12 days and features experienced AI professionals from Rancho Labs.

Bootcamp Syllabus

Grade 9th to 10th

Session	Topic	Project
1	• Introduction to Google Colab • Input and Output in Python • Variables, Data Types, and Casting • Operators	simple calculator
2	• Using if and else • Random Number Generation	Random number guess game
3	• Arrays, Tuples, Sets, and Dictionaries	pattern generation
4	• Loops (For, While, and Nested) • Function Declaration in Python •	Indexing Demonstration
5	• Understanding and Making a Simple Regressive Gameors	Regressive Game
6	• Introduction to Chatbots • Creating a Tulip Dictionary Chatbot Using Collab	Simple Chatbot
7	• File Handling (Reading/Writing Files) • Integrating File Extensions for Enhanced Chatbot Functionality	Upgraded Chatbot
8	• Introduction to Pandas • Data Cleaning and Manipulation	data sorter
9	• Introduction to Streamlit • Creating a Simple Web Application	Webpage Implementation

Session	Topic	Project
10	• Integrating User Inputs/Outputs for Display • Connecting Streamlit with Chatbot for Web Applications •	Web Chatbot
11	• Understanding APIs • Building an Advanced Chatbot with API Integration	Advance Chatbot
12	• Understanding Dijkstra's Algorithm • Developing a Shortest Path Finder for Real-World Applications	Shortest Route Finder

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Rancho Gallery

Certification

- Students will be awarded the certifications after the completion of bootcamp
- Students need to pass the evaluation for the certification

Eligibility

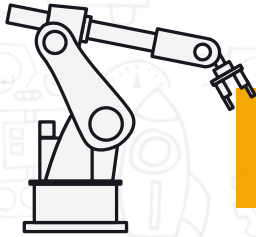- Program is open for Grade 6 to Grade 12

  Pre-requisites:

- There are no pre-requisites to attend the program.

Fee Structure

Program Fee: ₹ ~~14,999~~/- (Inclusive of Taxes)
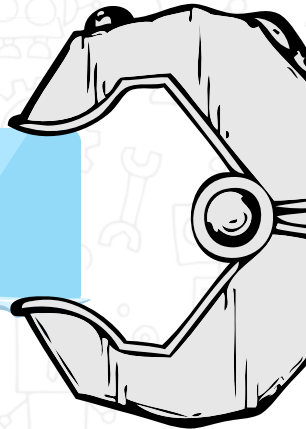
26th Dec 2024- 9th Jan 2024

Rs. 12,499/-

ENROLL NOW

10% sibling discount extra is applicable.
20% group discount for 4+ registrations.

Have A Query ?

Contact the Sales Executive:
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