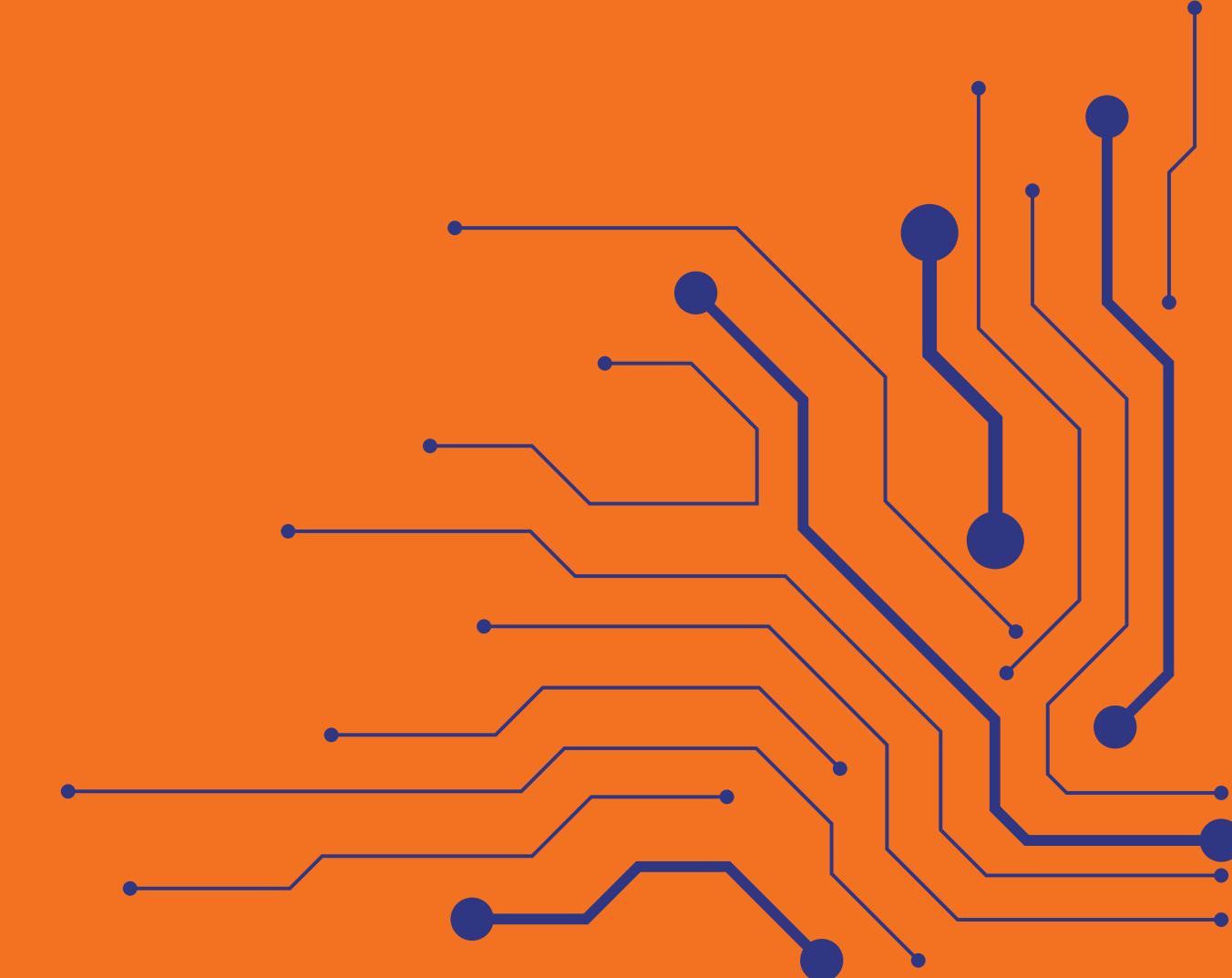




**EDSOLS**  
INNOVATIONS PRIVATE LIMITED

**Technology partner for Educational Institutions**

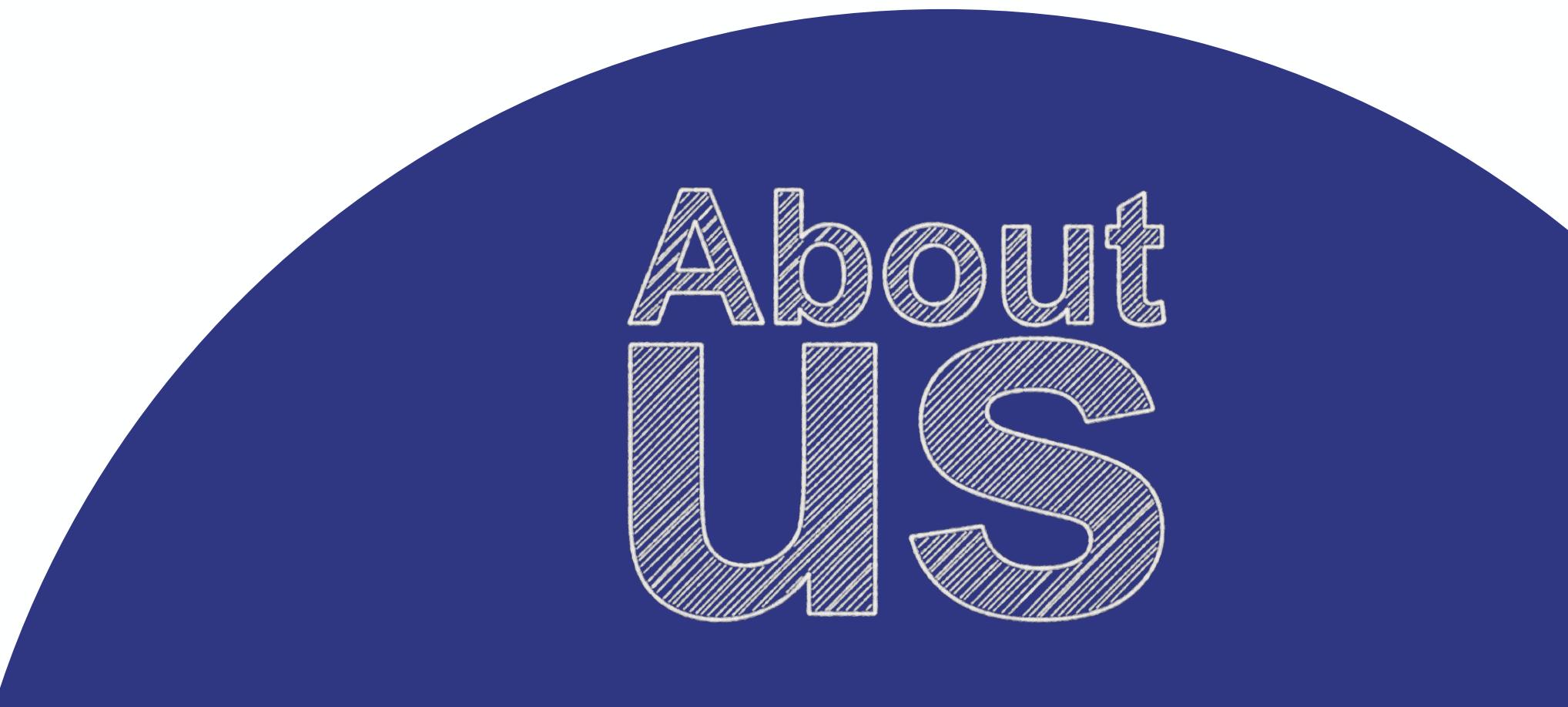




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# ABOUT EDSOLS

- EdSols is a Bangalore-based EdTech startup with a strong core team having over three decades of experience in both the academic and industrial spheres.
- Our team of experts have partnered with educators from prestigious universities and industry experts to lead the EdTech revolution.
- We offer multiple handpicked EdTech programs and are a one-stop solution for everything in the Education Technology sphere.
- Design and develop cutting edge AI and IoT labs for schools and colleges to help students gain hands-on experience in developing real world AI applications and IoT products.



About  
Us



# OUR VISION

**01.**

Introduce state-of-the-art technologies like Artificial Intelligence and STEM education to students at all education levels, from kindergarten to post-graduation, fostering early exposure and continuous learning

**02.**

Shift the focus of education from passive reading to active problem-solving and real-world application, encouraging students to learn through building tangible solutions.





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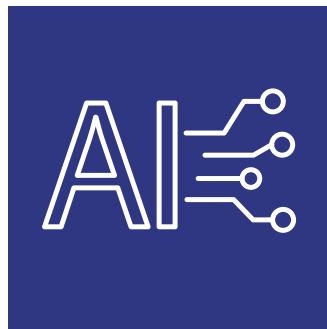
# OUR MISSION

- 01.** Facilitate collaboration between educational, corporate, and government institutions to create a dynamic learning ecosystem
  
- 02.** Empower institutions to cultivate curiosity, creativity, and imagination among learners
  
- 03.** Bridge gaps between educational theory and real-world application



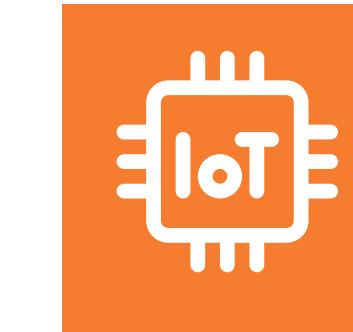


# OUR SERVICES



## AI Lab for Schools

Transform school computer labs into AI labs to enhance student learning in machine learning, data analysis, and automation, preparing them for future tech leadership roles.



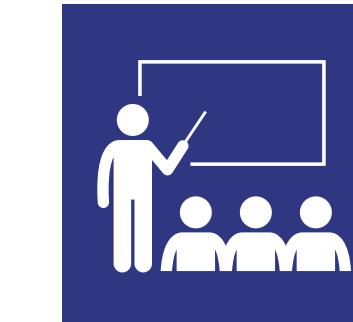
## IoT Lab for schools

Establish partnerships with educational institutions to offer middle school students instruction in fundamental electronics and Internet of Things (IoT) competencies.



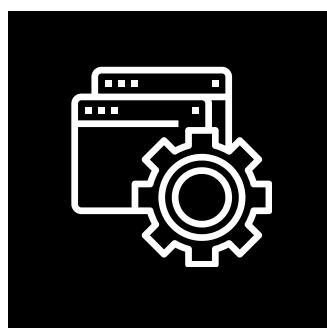
## Curriculum Design and AI Labs for Colleges

Collaborate with colleges to tailor an AI curriculum and laboratory configuration to meet their specific needs.



## IoT Training for Schools

EdSols plans to offer Internet of Things (IoT) training to schools to improve students' skill sets.



## AMC

Provide schools/colleges with flexible AMC packages to provide technical support and maintenance of their AI Labs



## AI Training for Colleges

Partner with colleges and universities to customize the design of AI and IoT products.



# IOT, ROBOTICS & AI LABS

Overview - Customary Hardware and Technologies incorporated to our Labs & Training Program for schools



01

**IoT & Robotics Systems**



02

**Integrated Robotic Systems**



03

**Autonomous Car**



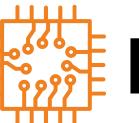


# INTEGRATED IOT SYSTEMS

Dive into the world of IoT with micro:bit and sensors, embarking on a journey of innovation. From crafting a Smart Home to designing an Obstacle Avoidance Car, each project promises a mastery of cutting-edge concept programming finesse, sensor integration, and autonomous systems.

## BLOCK-BASED PROGRAMMING:

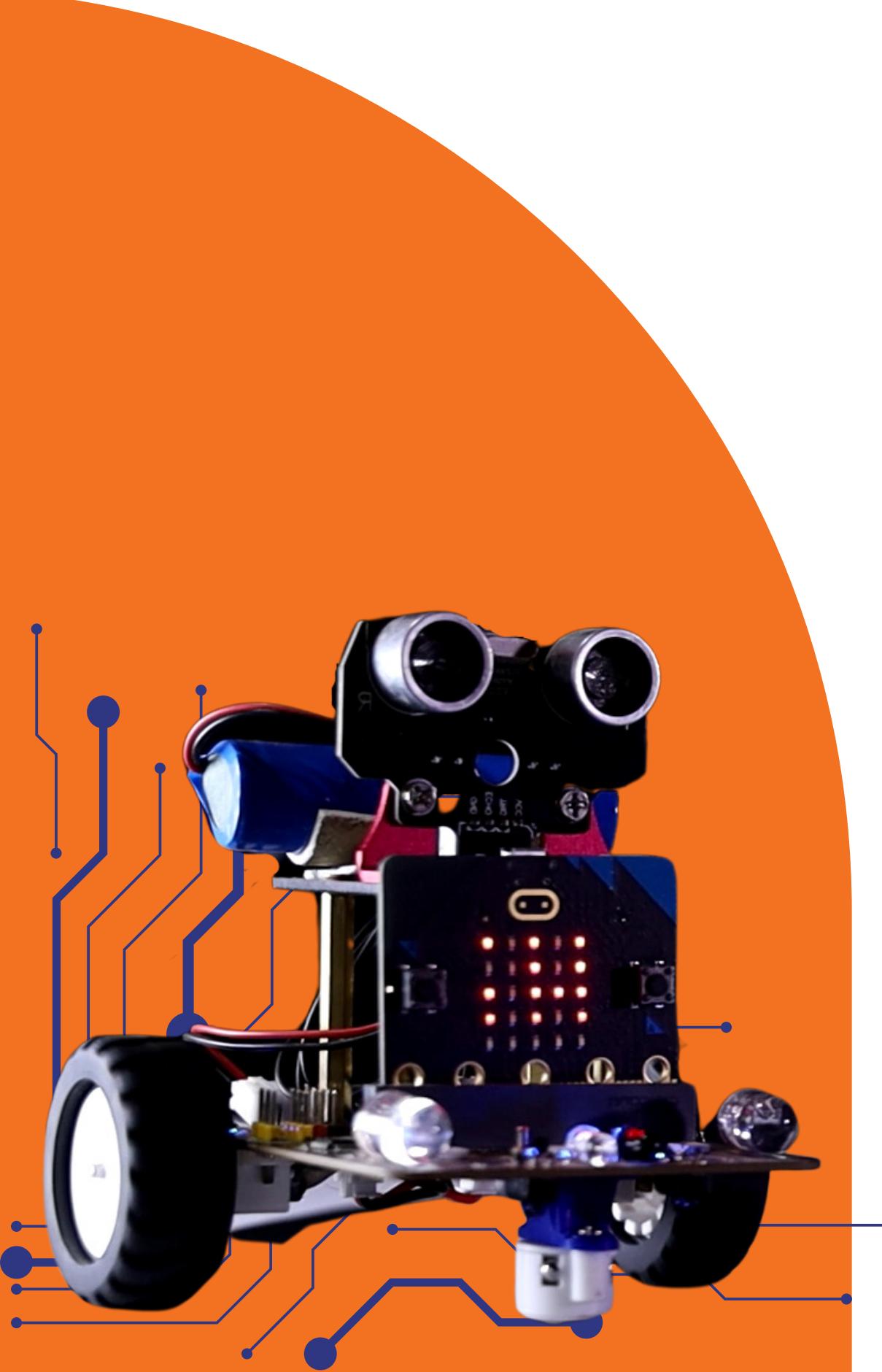
- Enable students with drag-and-drop coding for personalized programming.
- Explore robotics and IoT through hands-on projects
- Foster innovation and lay the groundwork for future learning.



## KEY COMPONENTS

- BBC Micro:Bit V2.2
- Ultrasonic Sensors
- IR Sensors
- Soil Moisture Sensor
- Colour Sensor
- RGB and Button Module
- Joystick and Building Blocks Kit
- OLED Display
- Humidity Sensor
- Temperature Sensor





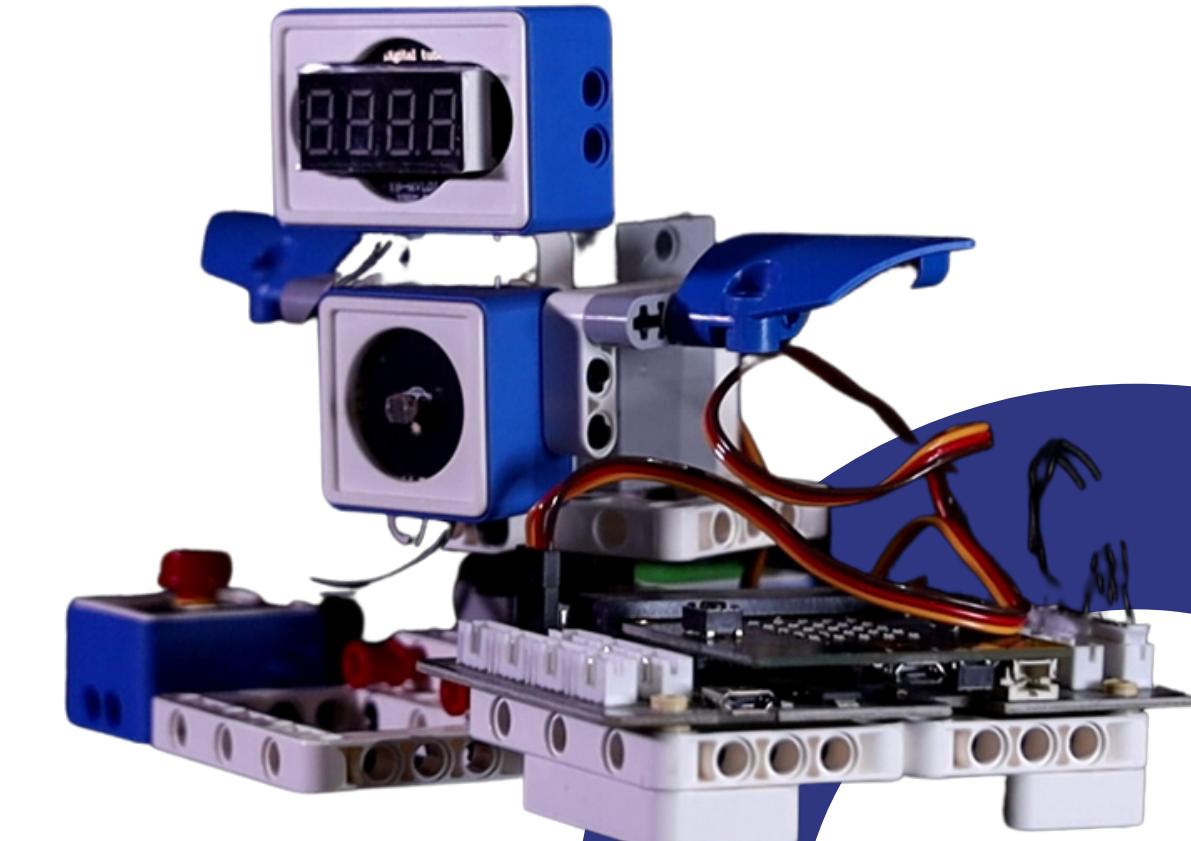
## HANDS ON PROJECTS

- Smart home
- Obstacle Avoidance Car
- Dancing Spider Bot
- Oscillating Fan
- Magnum Wheel Car
- Automatic IOT Door
- Moving Basket with Score Counter
- Sunflower
- Ultrasonic Range Finder
- Catapult
- Clip Robot
- + 40 More



## CUSTOMIZED KITS

- Micro:Bit v 2.2 Go Kit
- Smart Car Kit
- Modular P&P Sensor Kit
- Smart Home Kit
- Building Blocks Kit



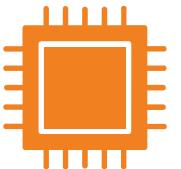


# INTEGRATED ROBOTIC SYSTEMS

Experience innovation with our robotic system featuring a precision-engineered hardware suite. Precision hardware, enhanced decision-making through data science, and seamless human-robot interaction with natural language processing

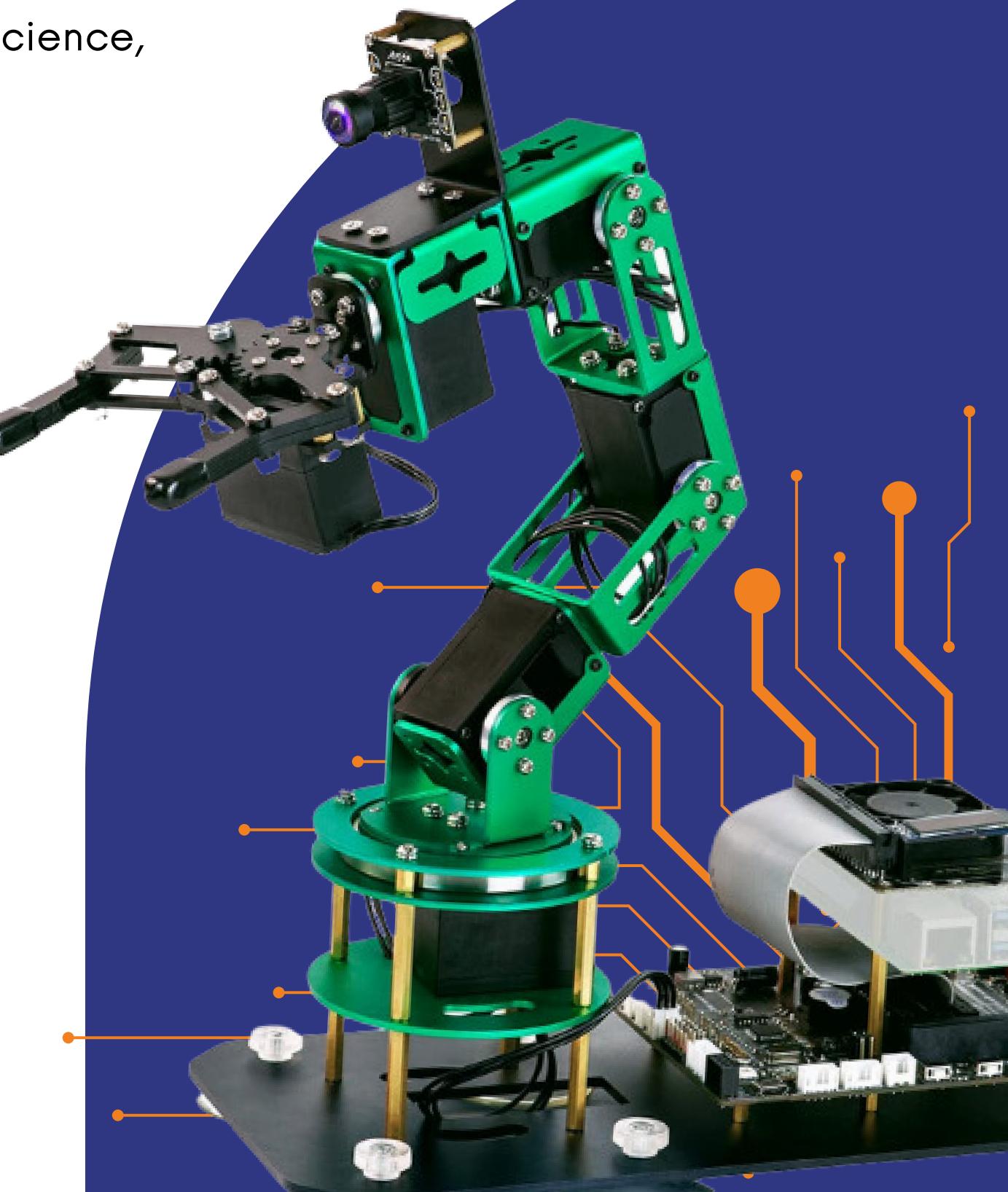
## LEARNING OUTCOME

Raspberry Pi projects offer hands-on learning in diverse domains including computer vision, AI, and IoT. Engage in practical applications. Explore the breadth of skills from all the projects by comprehensive understanding of technology.



## KIT COMPONENTS

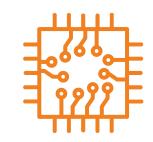
- Color Sorting Kit
- Artificial Fruits and Vegetable Kit
- Garbage Sorting Kit
- Customized Operating System
- Customized Expansion Board
- IR Temperature Sensor
- Speaker
- Directional Array Microphone
- 7 inch Touch Screen Display



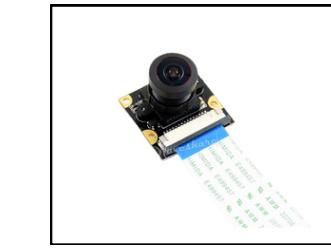
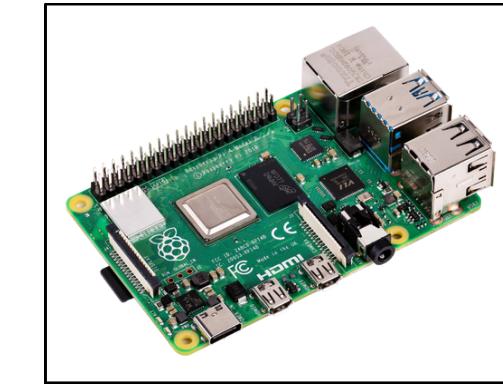


## HANDS ON PROJECTS

- Face Recognition
- Face Detection and Tracking
- Color Sorting
- Chatbot
- AI Smart Speaker
- Sentiment analysis
- Face Mask Detection
- Image Processing
- Wake Word Algorithm
- Garbage Sorting
- Fruits and Vegetable Sorting
- Document Reader - GPT
- Fake News Detection
- Leaf Disease Detection
- Image Caption Recognition
- Optical Character Recognition
- Sensor Integration



## PRIMARY HARDWARES



Camera Module

Audio card

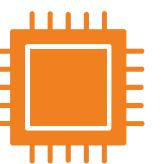


# AUTONOMOUS CAR

Start an innovative journey with our robotic system, featuring a carefully designed hardware suite. Experience the advantages of accurate hardware, enhanced decision-making through data science, and seamless human-robot interaction facilitated by natural language processing.

## LEARNING OUTCOME

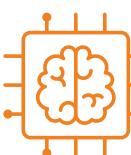
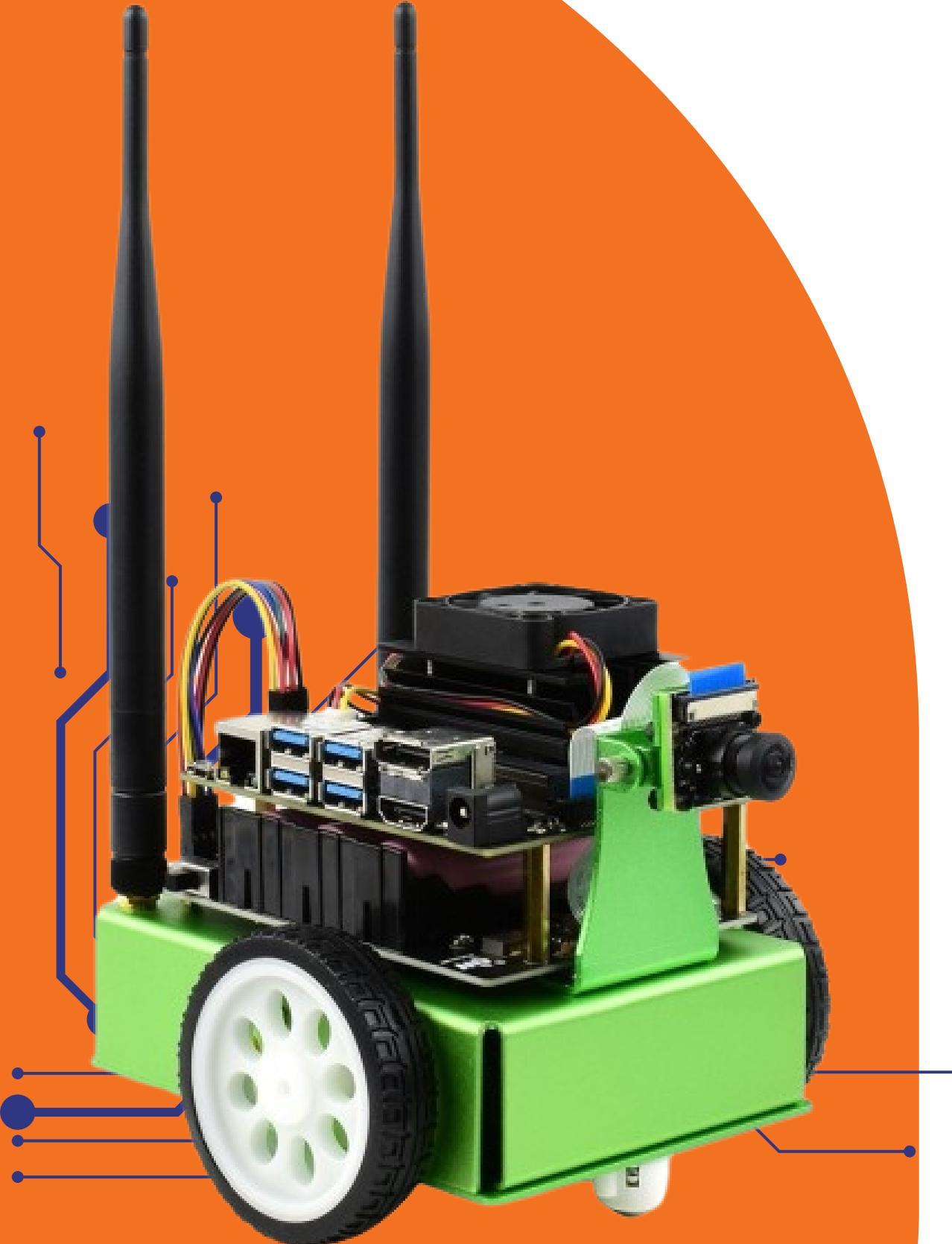
By working with this project, learners gain practical experience in developing and deploying autonomous driving systems, integrating hardware and software components, and applying advanced algorithms for perception, decision-making, and control in real-world scenarios.



## KIT COMPONENTS

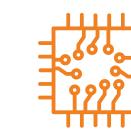
- Traffic Signal Kit
- Road Map
- Traffic Sign Kit
- Customized Operating System
- Customized Expansion Board
- Jetson Nano Module & Carrier Board
- Sensors



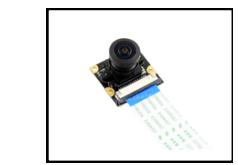


## HANDS ON PROJECTS

- Autonomous Car
- Road Following
- Collision Avoidance
- Gesture Recognition
- Traffic Sign Recognition
- Lane Detection and Following
- Autonomous Parking System
- Simulated Testing Environment



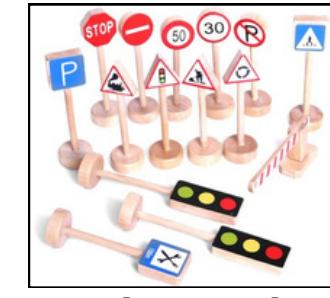
## PRIMARY HARDWARES



**Camera module**



**DC Motor**



**Road Signal Kit**



**Jetson Nano Developer Board**



**Jetson Orin Developer Board**



# OUR CLIENTELE / INDUSTRY PARTNERS



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INSTITUTE OF TECHNOLOGY

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★ CBSE BOARD SCHOOL ★



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# WHY CHOOSE EDSOLS?

Dive into the world of Artificial Intelligence with our state-of-the-art AI Labs. Students will grasp fundamental concepts, learn implementation strategies, and acquire techniques that empower them to generate valuable insights. Prepare for the future by staying ahead of upcoming industries and being proactive in the face of change.

## STUDENTS WILL GAIN

- A Foundation for Future Learning
- Hands-on Implementation Experience
- Techniques for Valuable Insights
- Understanding of AI Concepts

## CUSTOMIZATION FOR YOUR NEEDS

Our catalog offers a wide range of customizable products to meet the unique needs of institutions and businesses, from hardware to educational labs.

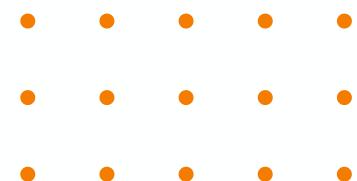
Our catalog spans hardware solutions, complete lab deployments for schools and colleges, as well as cutting-edge AI-based and data science projects available for outsourcing.

## WHY CHOOSE OUR LABS?

- Cutting-edge Curriculum
- Hands-on Experience
- Future-Ready Education

## FLEXIBLE SOLUTIONS:

Edsols Innovations merges technology and education, offering customizable solutions that evolve with educational and technological needs.



# GET IN TOUCH

Reach out. Request a DEMO

 [sales@edsols.in](mailto:sales@edsols.in)



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