



PERTUBUHAN PENYELIDIKAN TEKNOLOGI AI MALAYSIA

ARTIFICIAL INTELLIGENCE
ASSOCIATIONS MALAYSIA

PROFILE 2021

PPM-011-10-29012021

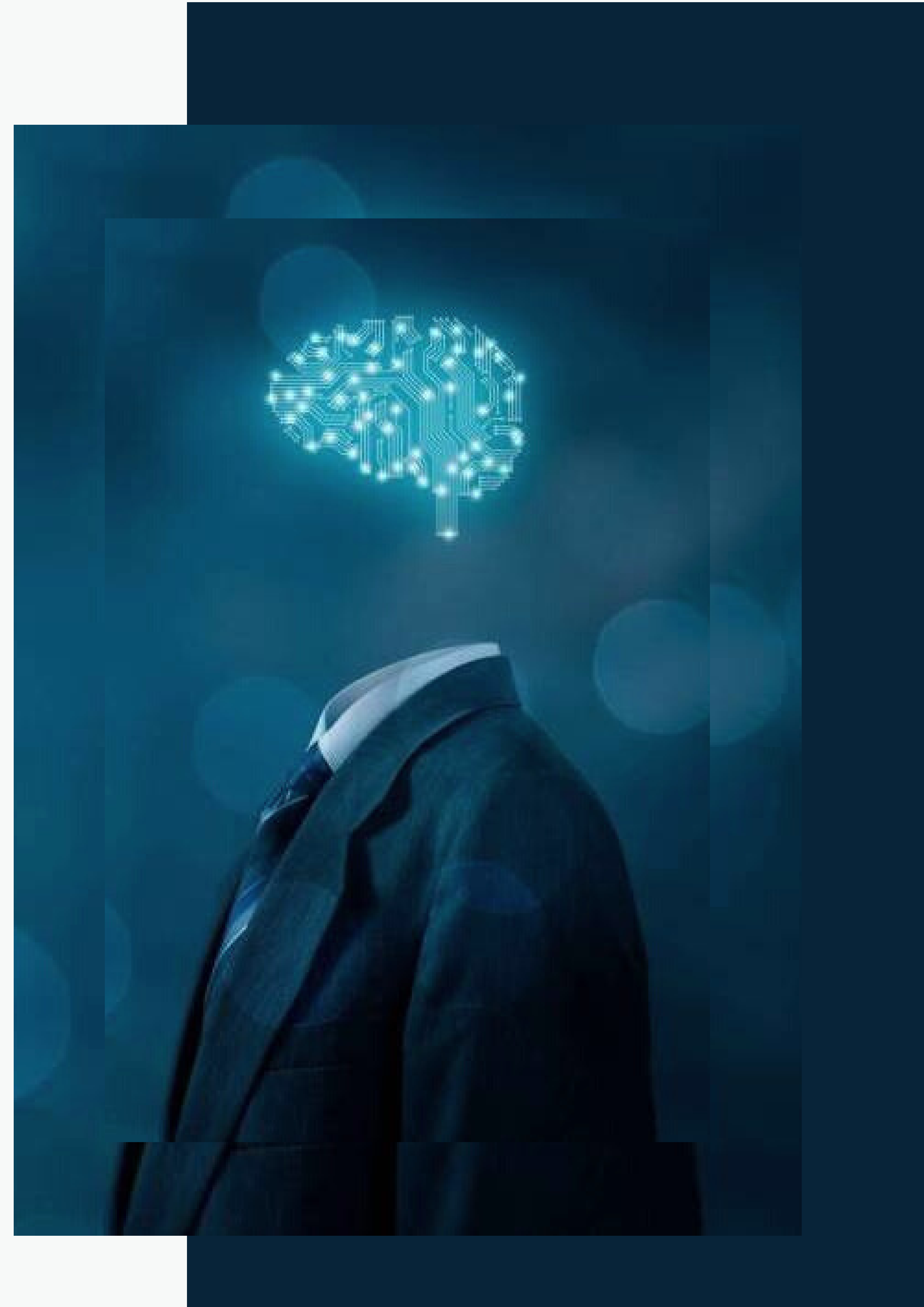


XIS 6

Understanding

Artificial Intelligence

The capacity given by human to machines to memorize and learn from experience, to think and create, to speak, to judge and make decision



Artificial Intelligence Associations Malaysia Goals

RESEARCH AND DEVELOPMENT

Research and development of AI
technology in the security sector

ETHICAL & PRIVACY

Ethical & privacy research in the
field of artificial intelligence

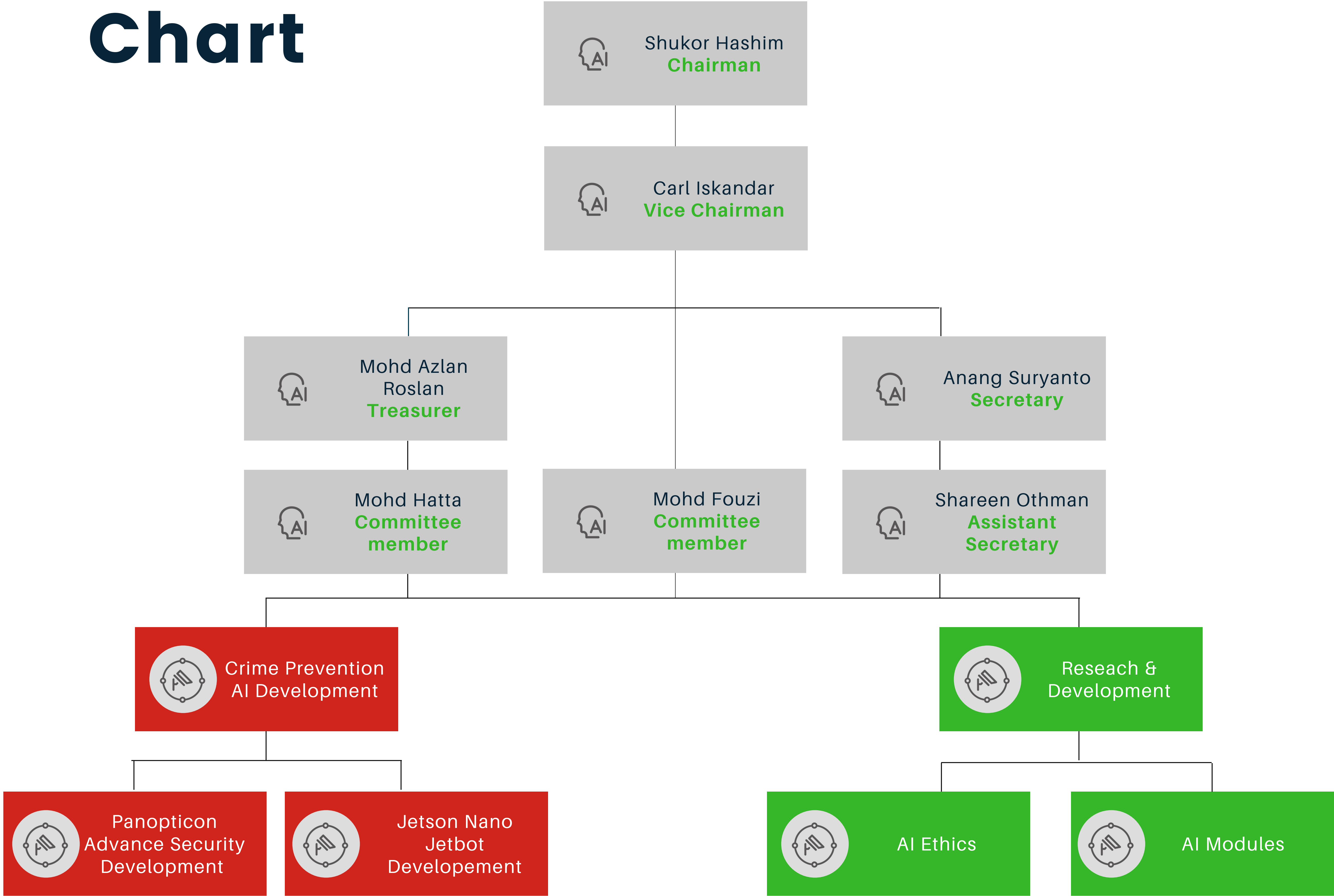
PANOPTICON ADVANCE

Research and build a system ai
panopticon to prevent crime

AI ROBOTICS TECHNOLOGY

Research and development of ai
robotics technology

Organizational Chart



Associations Research Division



PPTAIM

AI RESEARCH & AI
PRODUT
DEVELOPMENT
DIVISION

PANOPTICON
ADVANCE SECURITY
SYSTEM

Jetson Nano

ROBOTICS
TECHNOLOGY

Jetbot

AI Robotics

AI EDUCATION
COURSE

PANOPTICON
ADVANCE SECURITY
SYSTEM

Jetson Nano

DEEP MACHINE
LEARNING

Jetbot

Train the AI



"Human should be worried about the threat posed by Artificial Intelligence"

Bill Gates - founder Microsoft



Objective

To have a platform for researched and development in artificial intelligence in Malaysia

Mission

To developed AI Surveillance Advance Security System

Vission

Panopticon Safe City Advance Security System to be applied in Malaysian CITIES

QUALITIES OF ARTIFICIAL INTELLIGENCE

INTENTIONALITY

AI systems have the ability to learn and adapt as they make decisions

ADAPTABILITY

AI systems have the ability to learn and adapt as they make decisions

INTELLIGENCE

AI generally is undertaken in conjunction with machine learning and data analytics

OPTIMIZABLE

They are unlike passive machines that are capable only of mechanical or predetermined responses

THE IMPORTANCE OF ARTIFICIAL INTELLIGENCE



AI TECHNOLOGY ENHANCES PRODUCTIVITY

Presentations are communication tools that can be used as demonstrations.



IMPROVING CUSTOMER EXPERIENCE

Presentations are communication tools that can be used as demonstrations.



REDUCING ERRORS

Presentations are communication tools that can be used as demonstrations.



SAVING TIME AND MONEY

Presentations are communication tools that can be used as demonstrations.

2021 2022 PROJECTS

artificial intelligence association malaysia



Research & Development into robotics

1. JETSON NANO
2. PANOPTICON SECURITY SYSTEM



AI DEVELOPMENT TIMELINE

research and development

PPM-011-10-29012021

2020-2022 RESEARCH & DEVELOPMENT

developing platform for AI research and development for AI Security Advance System

2021 - 2022 DESIGN JETBOT

Fundamental study in Machine Learning research

2021 - 2023 PANOPTICON

To developed Panopticon Advance Security System

PPTAIM PROJECTS 2021

NVIDIA Deep Learning AI

JETSON NANO JETBOT

fundamental reseach and development in
artificial intelligence



JETSON NANO

More powerful AI on the edge



to research by developed
Jetbot that power by Jetson
Nano that able to facial
recognition, object tracking,
auto line following, and
collision avoidance

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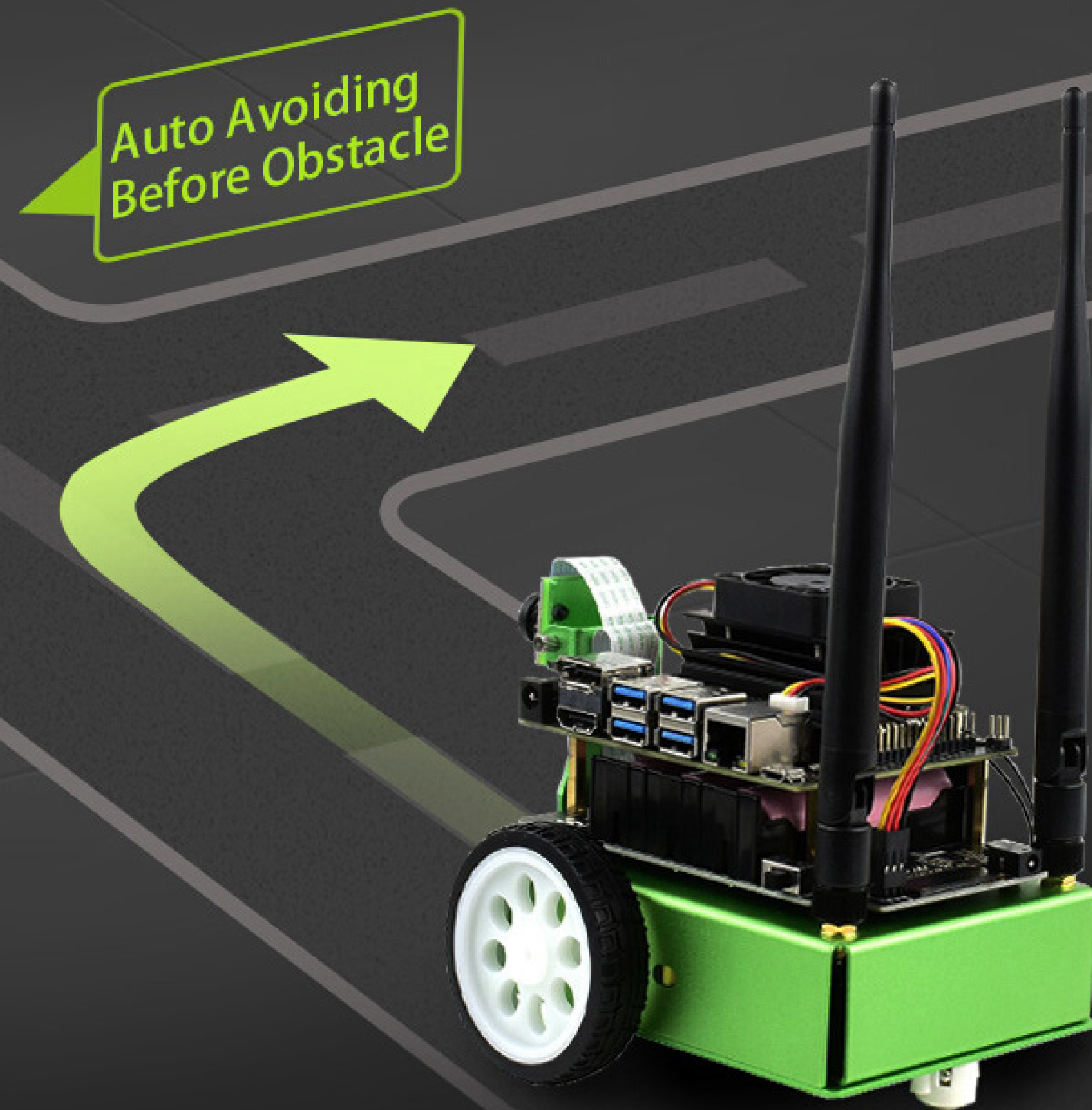
Artificial Intelligence Association
Malaysia to Developed as follow:

1. facial recognition
2. object tracking
3. auto line following
4. collision avoidance

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Auto Road Following & Collision Avoidance

Collect data via camera by taking enough images of different conditions, use the data to train the neural network, combined with AI algorithm, finally achieves auto collision avoidance on multi environments.



Auto Road Following &
Collision Avoidance

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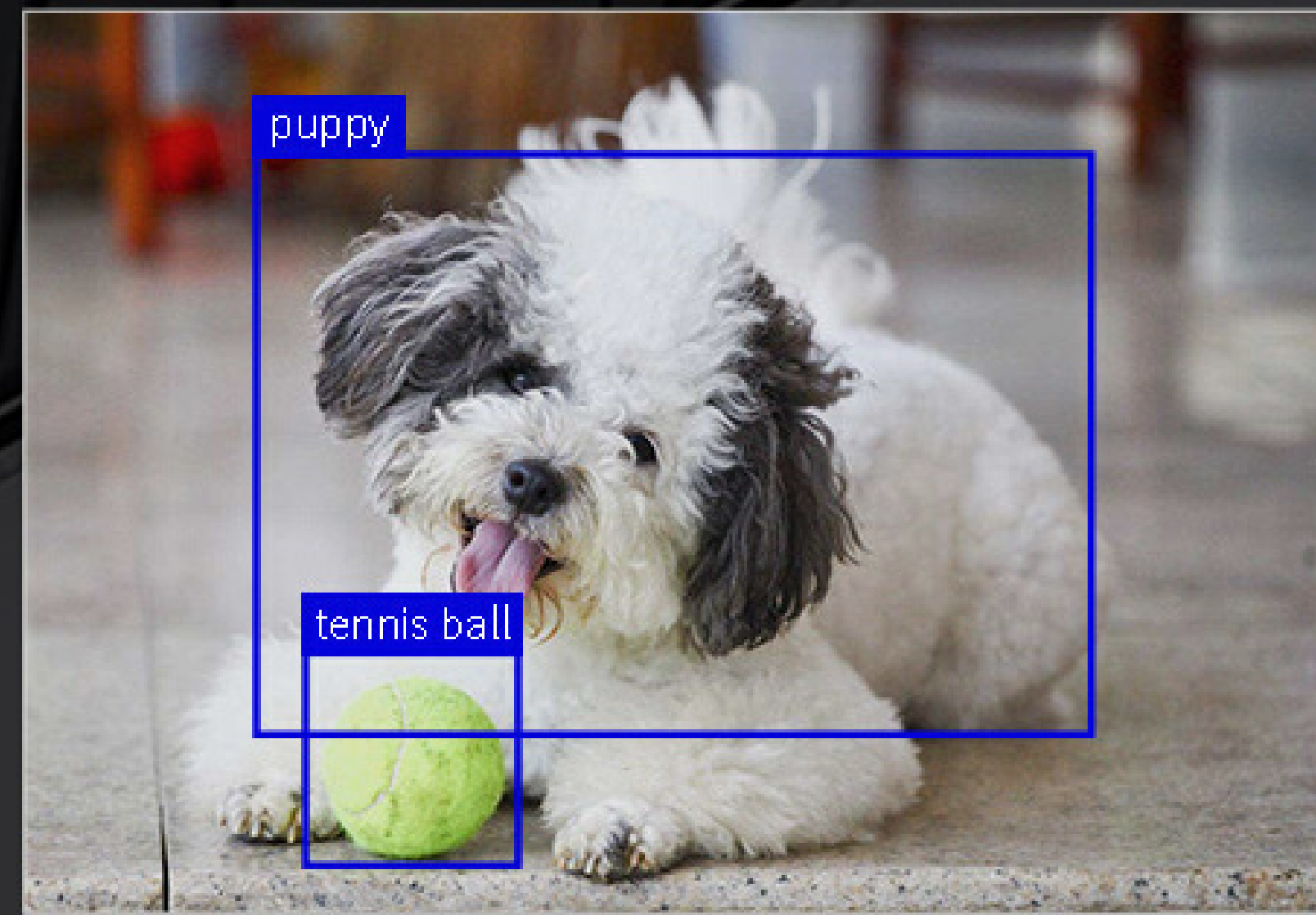
Artificial Intelligence “Actual Smart”

Smart robot is always the favorite project of electronic enthusiasts, however, a robot will be "not that smart" if it is not AI-based.

Welcome the JetBot, an actual smart robot powered by Jetson Nano. Easily achieving AI functions like: facial recognition, object tracking, auto driving Comes with ROS nodes code, which makes it easy to get started with ROS.



Facial Recognition



Object Classify

Object Tracking and auto drive

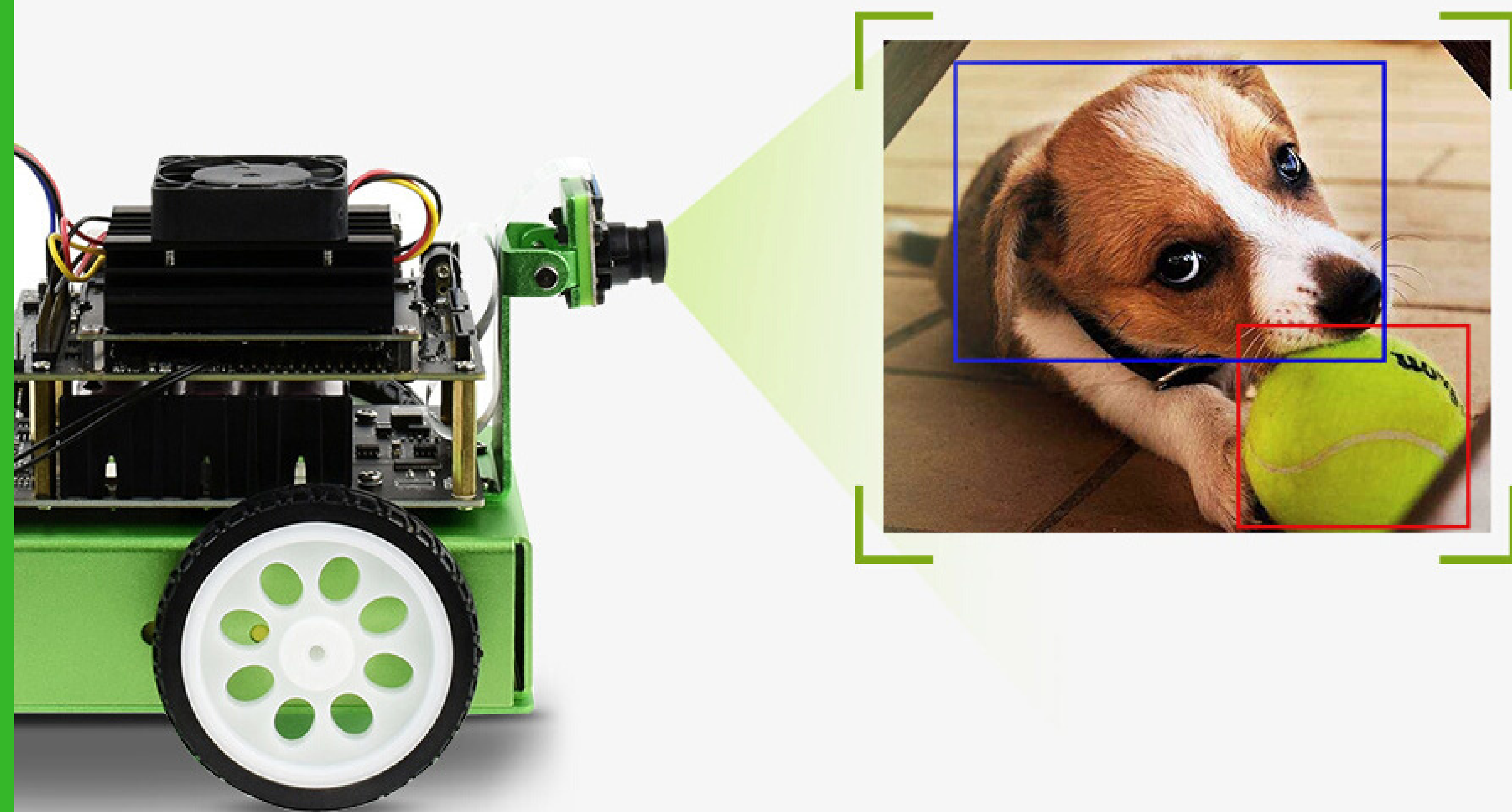
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Auto Line Following

Using the pre-trained neural network, select target object, the recognized object will be displayed on webpage in real time, and the JetBot will keep tracking it.

Select a target

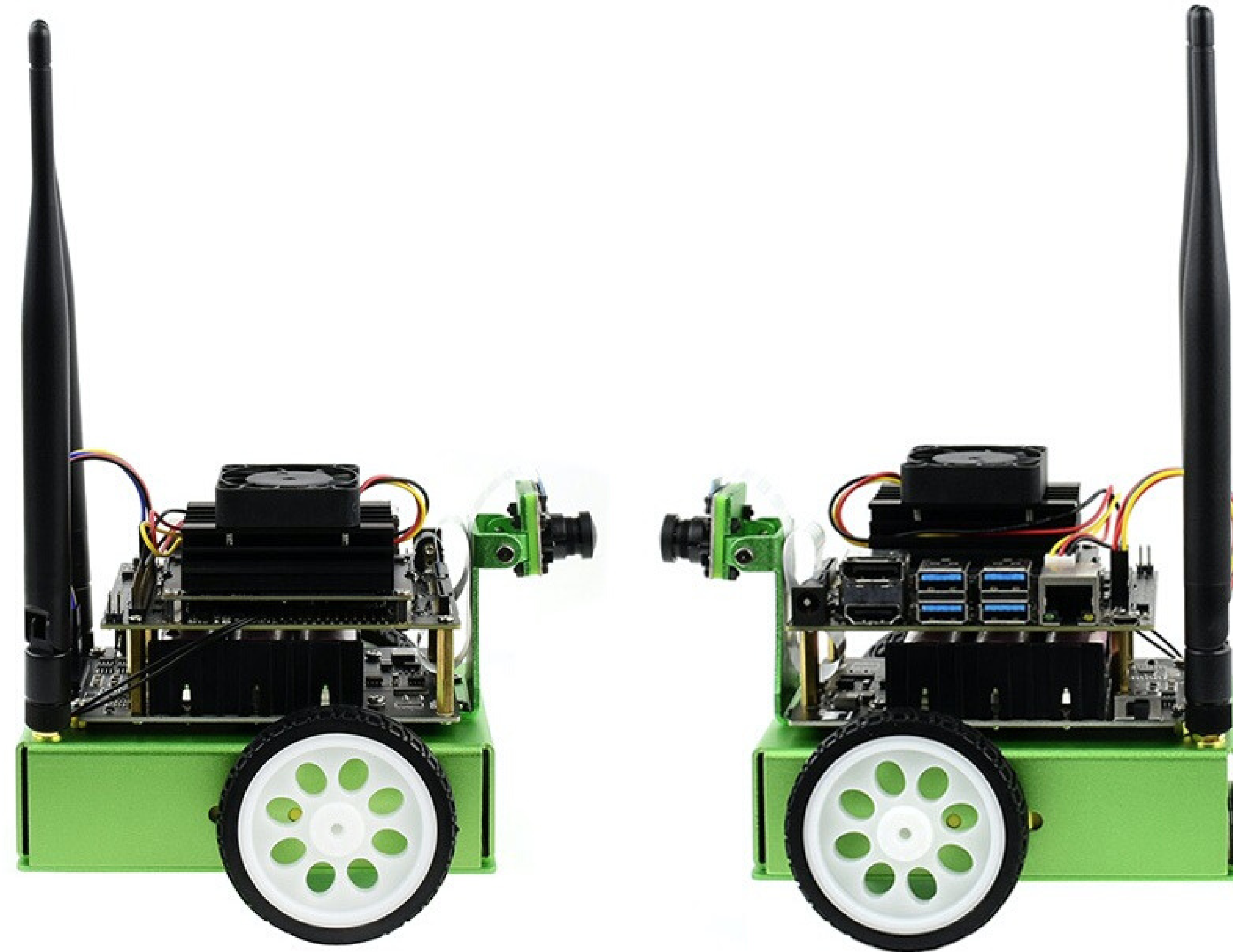
◀ human | **tennis ball** | animal ▶



auto line following, pre train AI,
deep machine learning able to
think like humans

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learn the ROS system framework and concept



 ROS

The Robot Operating System (ROS) is a flexible framework for writing robot software. It is a collection of tools, libraries, and conventions that aim to simplify the task of creating complex and robust behavior across a wide variety of robotic platforms. The ROS is one of the most popular robot software framework in the world

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PANOPTICON ADVANCE SECURITY SYSTEM

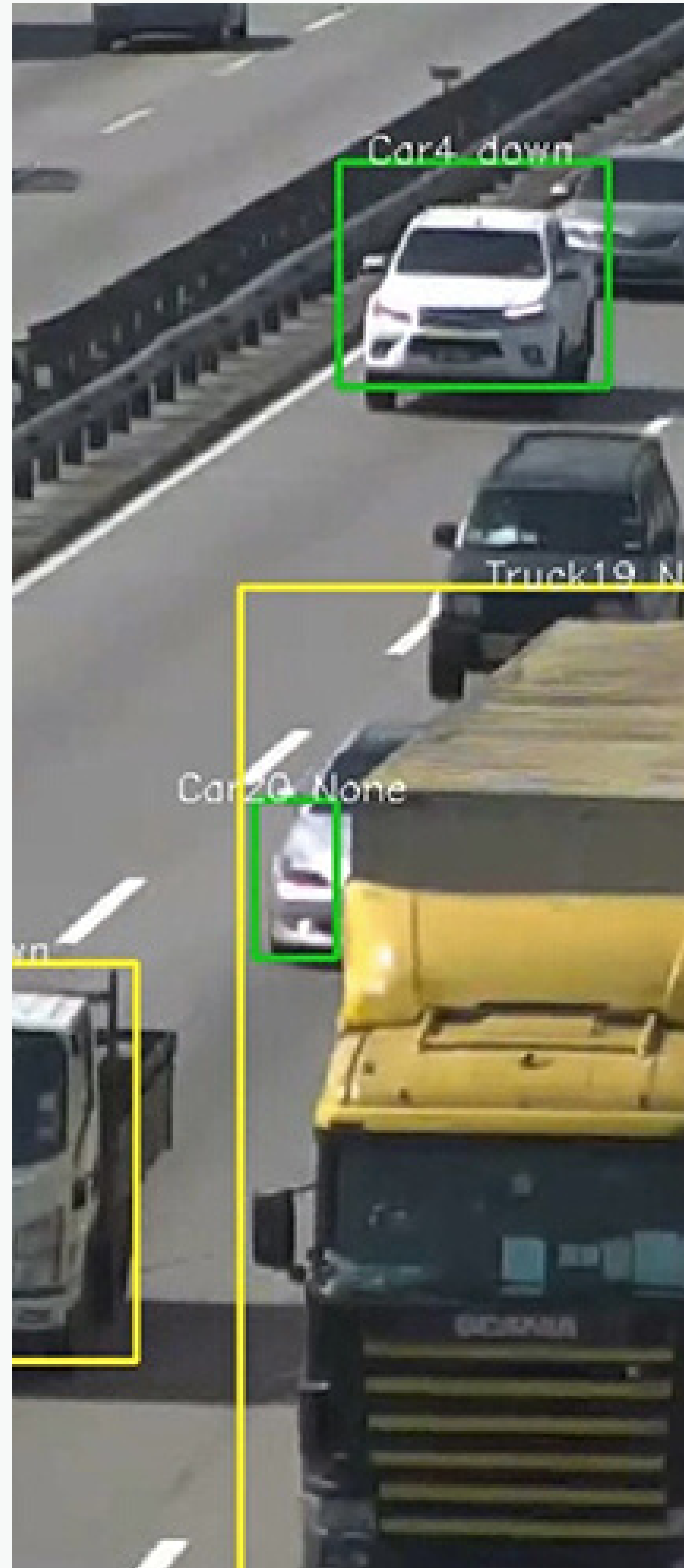
Future Safe City

PLEASE REFER TO PANOPTICON PROPOSAL!



ABOUT

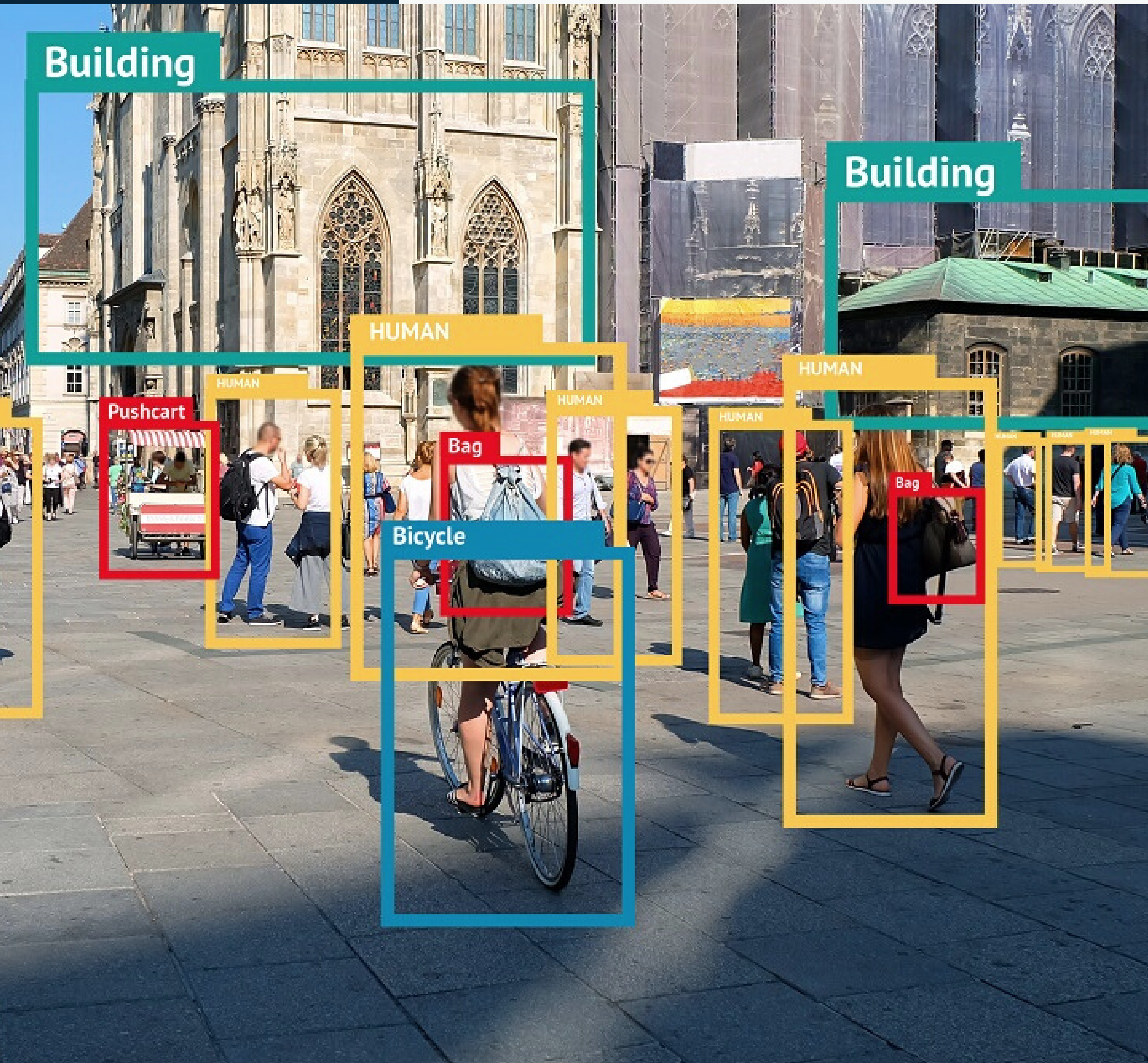
These integrated technologies enable rapid and effective responses to security needs and events



The Panopticon Safe City Solution provides sound, stable, and reliable municipal security. It features a series of advanced technologies and various security subsystems to safeguard industries, centralize operations, and integrate security platforms. .

AI
INTELLIGENCE
VIDEO

PANOPTICON SECURITY FEATURES



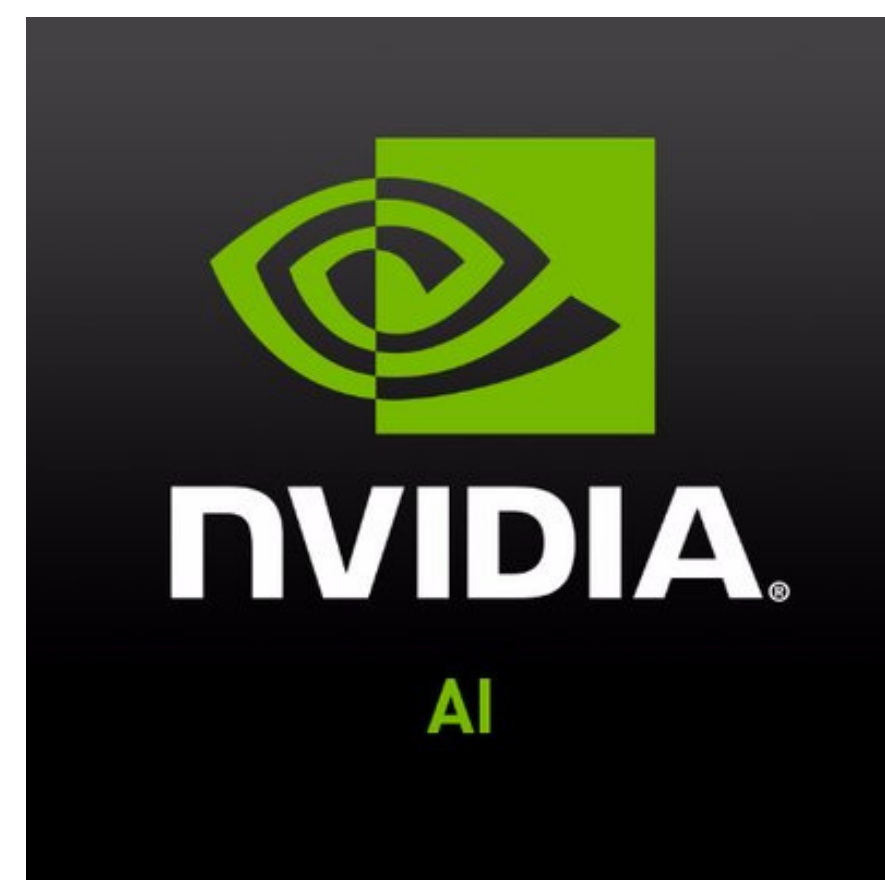
**FACIAL
RECOGNITION**

PANOPTICON SECURITY FEATURES



BODY
ABNORMAL
BEHAVIOR

COLLABORATION



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(PPM-011-10-29012021)

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Let's
Collaborate