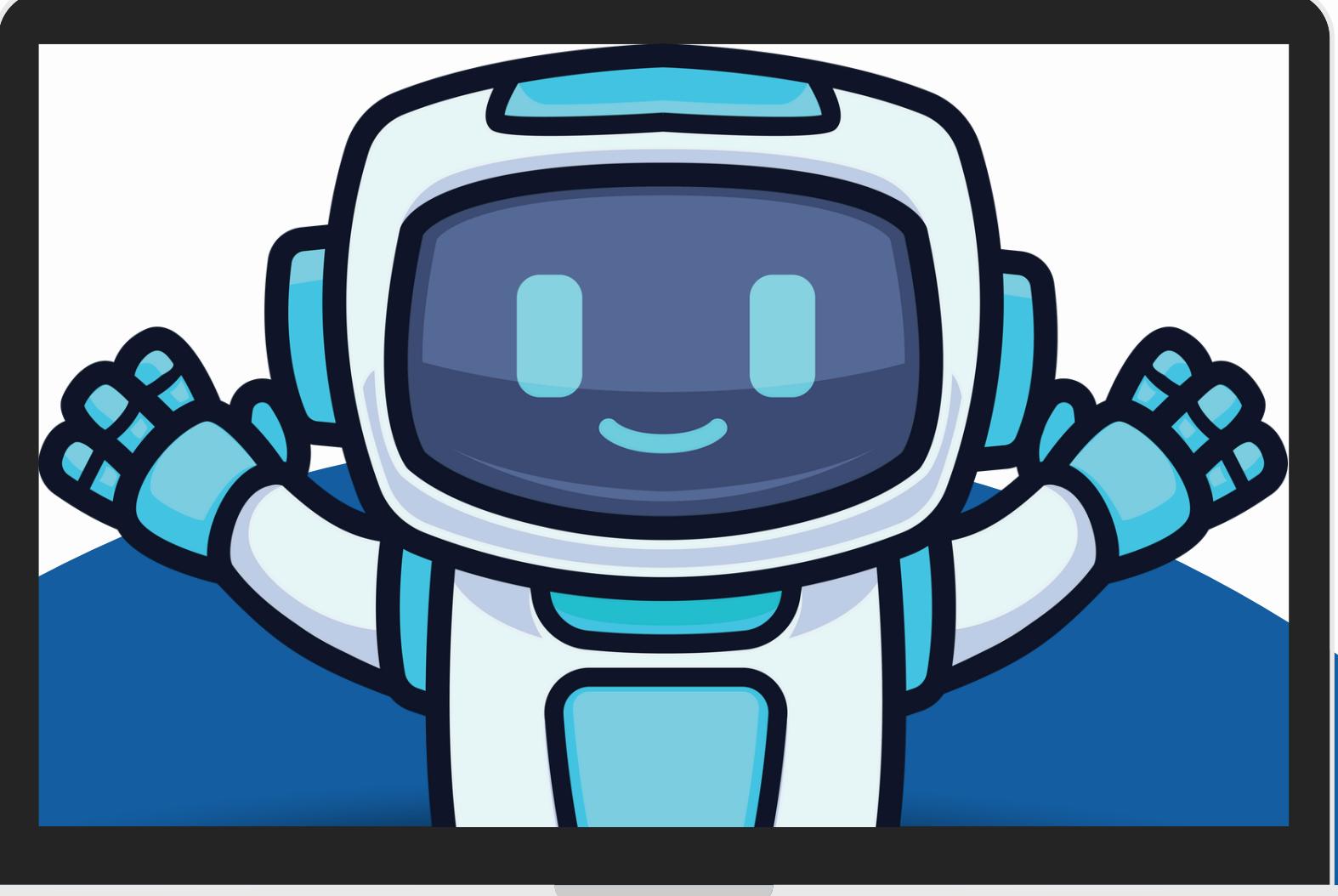


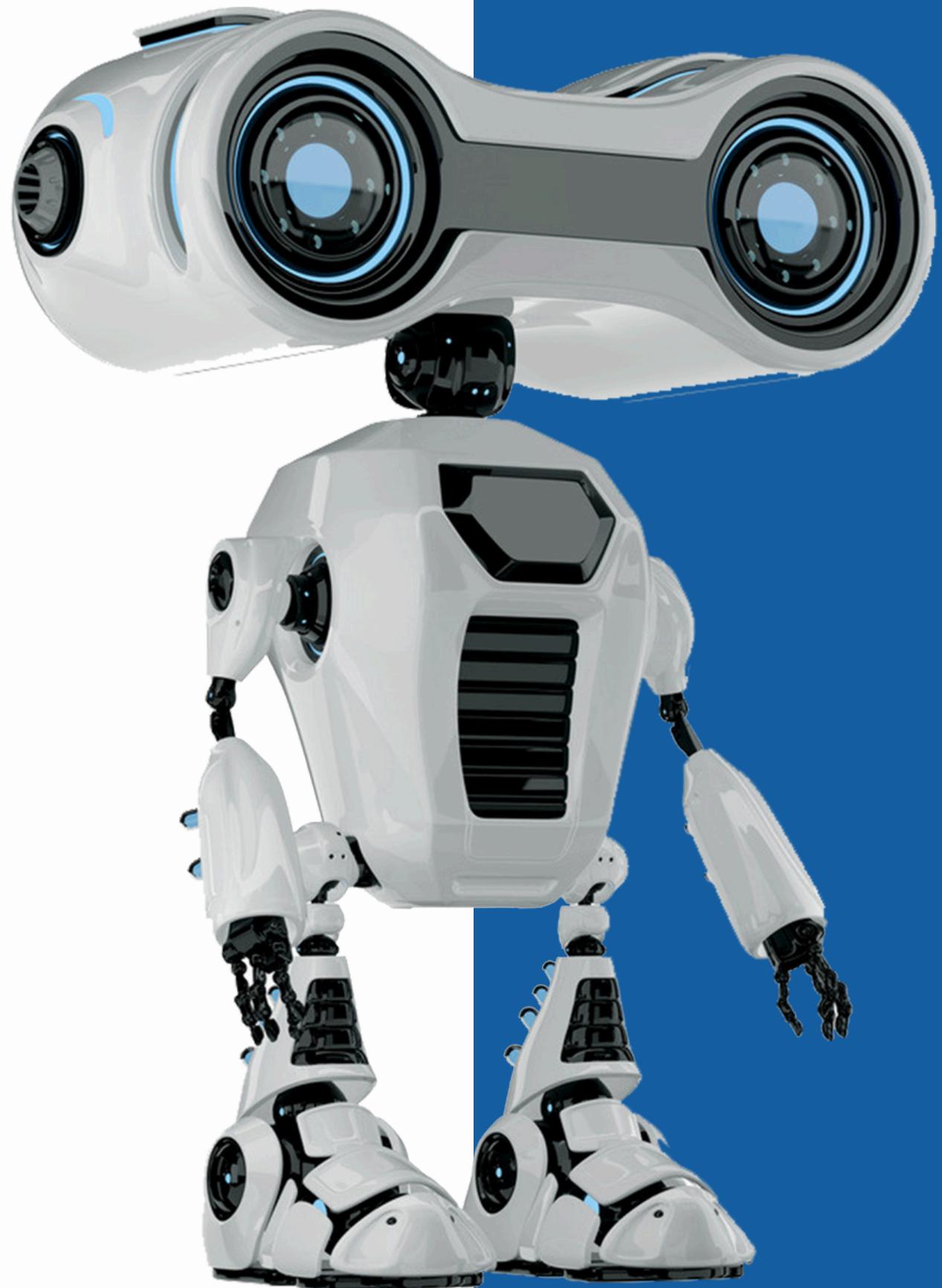
# Training course About Robots

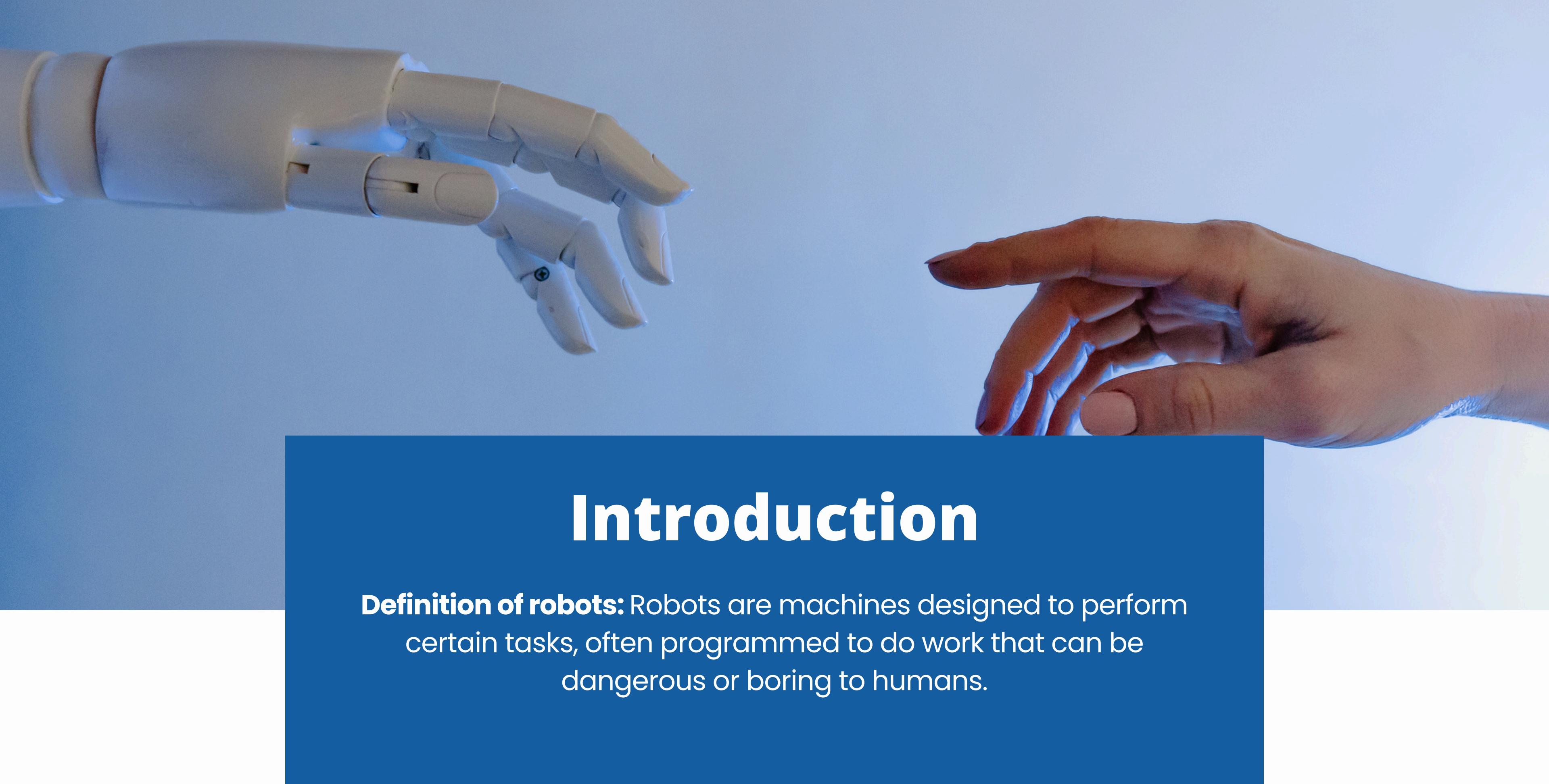
By: kourdourli mohammed



# Overview

- ▶ Introduction 01
- ▶ Technologies 02
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# Introduction

**Definition of robots:** Robots are machines designed to perform certain tasks, often programmed to do work that can be dangerous or boring to humans.

# Robotics Technologies

## Artificial Intelligence (AI):

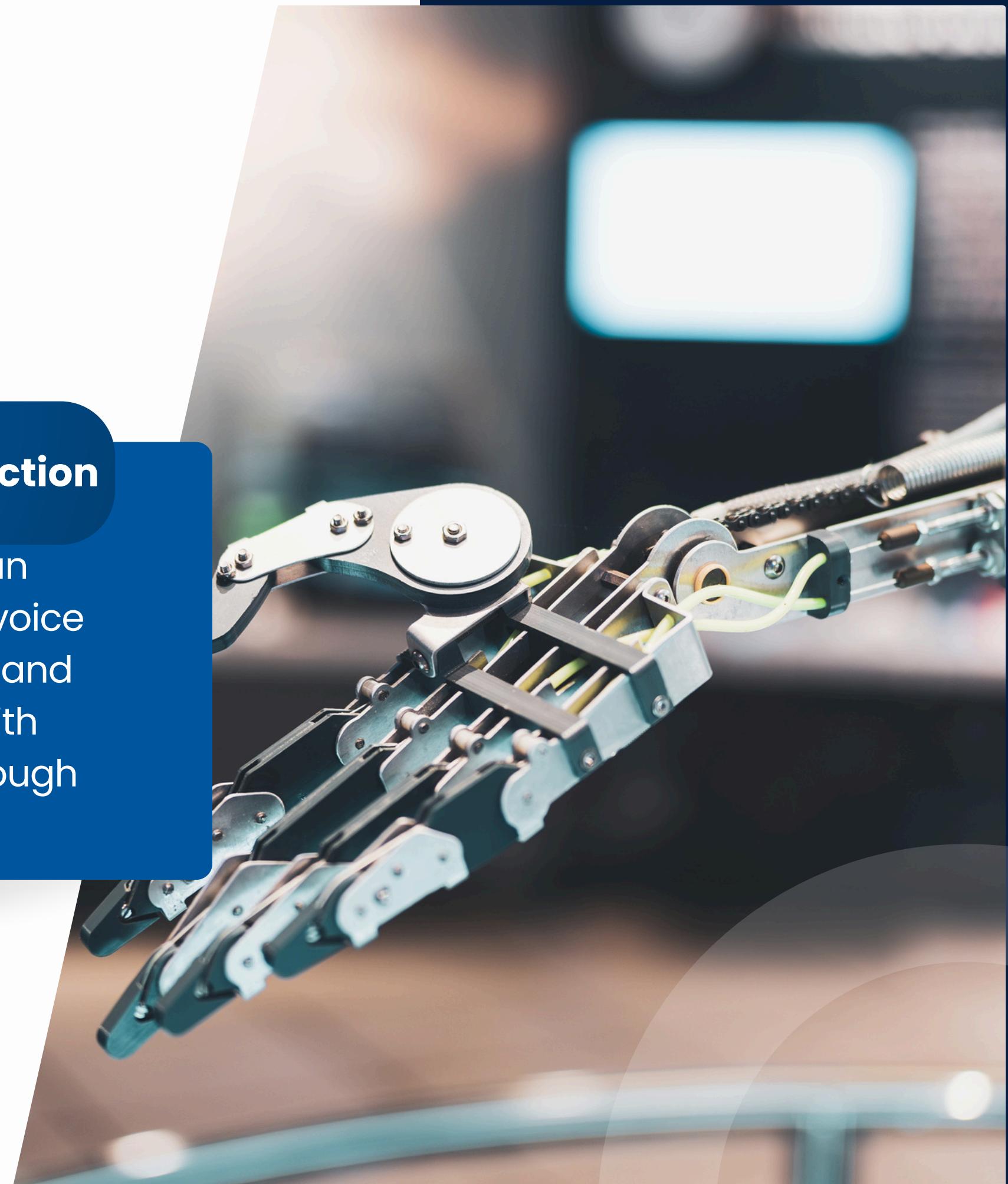
Robots can use AI to learn from past experiences and make decisions based on data.

## Computer vision

enables robots to "see" and analyze the surrounding environment using cameras and sensors.

## Voice interaction

Robots can understand voice commands and interact with humans through speech.

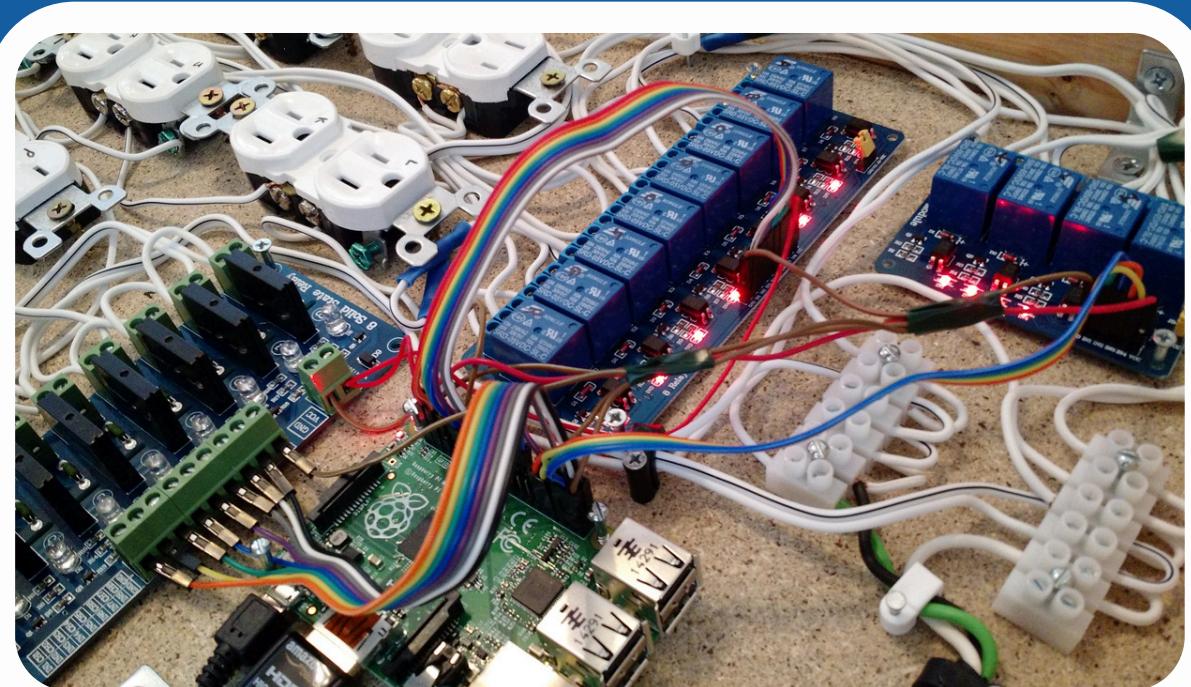


# Robot components



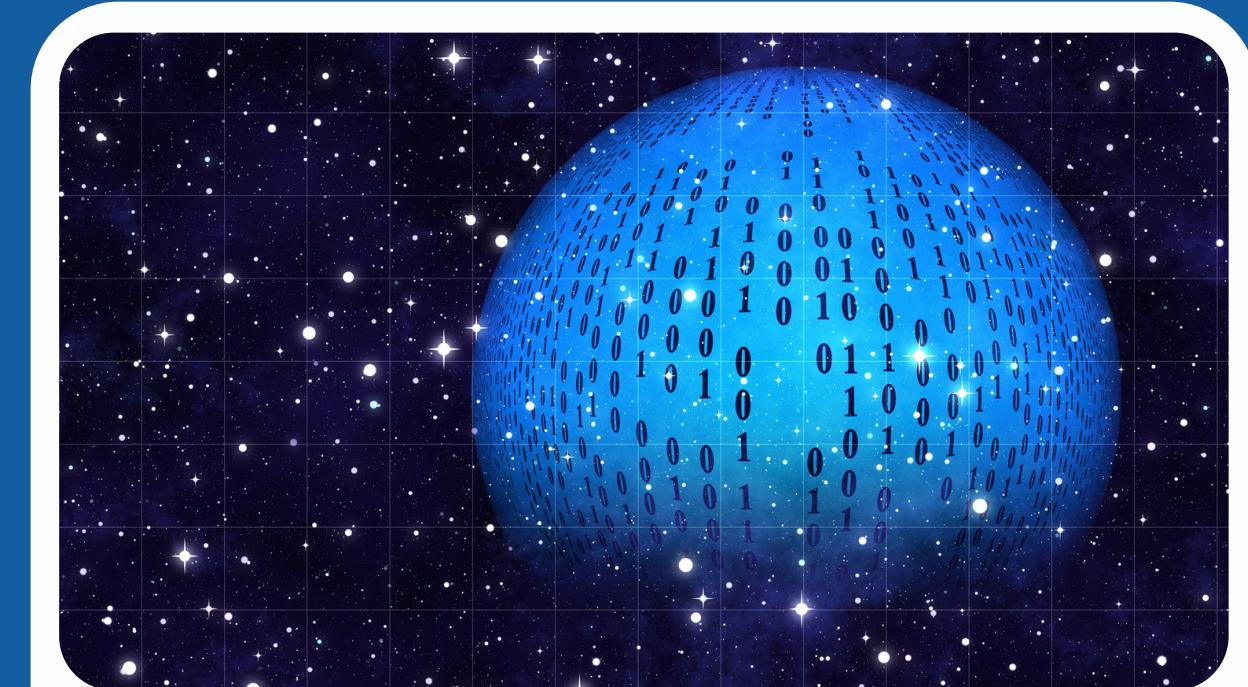
## Mechanical parts

includes chassis, motors, and joints.



## Electronic parts

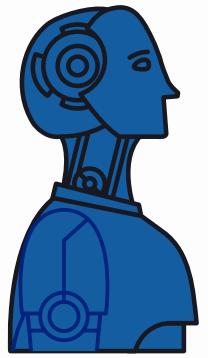
includes sensors, processors, and controllers.



## Software

Software that controls a robot and determines how it responds to the surrounding environment.

# Types of robots



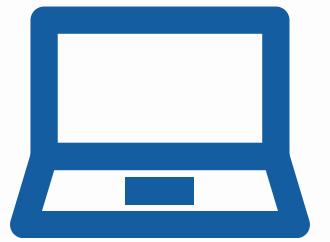
## Industrial robots:

used in factories to perform tasks such as welding and assembly.



## Medical robotics:

used in surgeries and physiotherapy.



## Recreational Household robots:

such as robotic vacuum cleaners.

such as robotic games.



# Robotics Apps

01

**Industry:** Improve efficiency and reduce human errors.

02

**Medicine:** Performing surgeries with high precision.

03

**Space:** Exploration of planets and moons.

04

**Services:** Providing assistance in hotels and restaurants.

# Robotics Challenges



## Cost:

Developing and maintaining robots can be expensive.



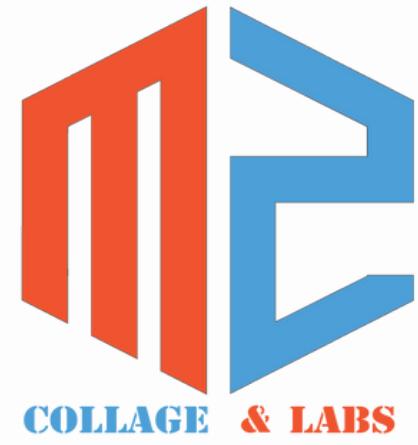
## Security:

Ensure that robots operate safely and do not pose a risk to humans.



## Ethics:

There are ethical issues related to the use of robots, such as their impact on human functions.



# THANK YOU!

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