JUNKBOT
MAKE YOUR OWN ROBOTS

AI & Coding Summer Camp

Two-week adventure into AI & robotics with Junkbot Robotics!

Mon-Thurs, 2 hours per session

Hands-on, beginner-friendly

Week 1: Discover Your AI Sidekick

1

Day 1: Hello, AI!

Train first model using Google Teachable Machine

Create prediction game with image classification

2

Day 2: AI Meets World

Connect AI to real outputs

Build interactive reaction game

3

Day 3: AI Mood Mirror

Train facial expression detector

Create digital mood mirror

4

Day 4: Speak to Bot

Build voice command system

Design chatty sidekick

Day 1: Demystifying AI

What You'll Learn

- AI & machine learning basics
- Train image classification model
- Spot AI in everyday life

Hands-on Activity

Train AI to recognize objects

Create fun prediction game

First steps with Teachable Machine

Day 2-3: AI in Action

Connect AI to Outputs

Trigger lights or sounds

Learn how AI "sees" and "responds"

Emotion Recognition

Train facial expression detector

Build "compliment bot"

Creative Applications

Create digital mood mirror

Map emotions to responses

Day 4: Voice-Powered AI

Voice Command Training

Teach AI to recognize simple phrases

Create custom voice triggers

Robotic Responses

Program reactions to voice

Design interactive sequences

Chatty Sidekick

Build personalized assistant

Create conversation flows

Week 2: Advanced AI Integration

Day 5: Multimodal AI — **1**

Combine voice and gesture models

Begin Smart Sidekick Bot

2 — **Day 6: Build Sidekick**

Create personality-driven assistant

Integrate LEDs, sounds, motors

Day 7: Pictoblox — **3**

Explore new AI platform

Create visual AI experiences

4 — **Day 8: AI Playground**

Test & remix projects

Awards celebration
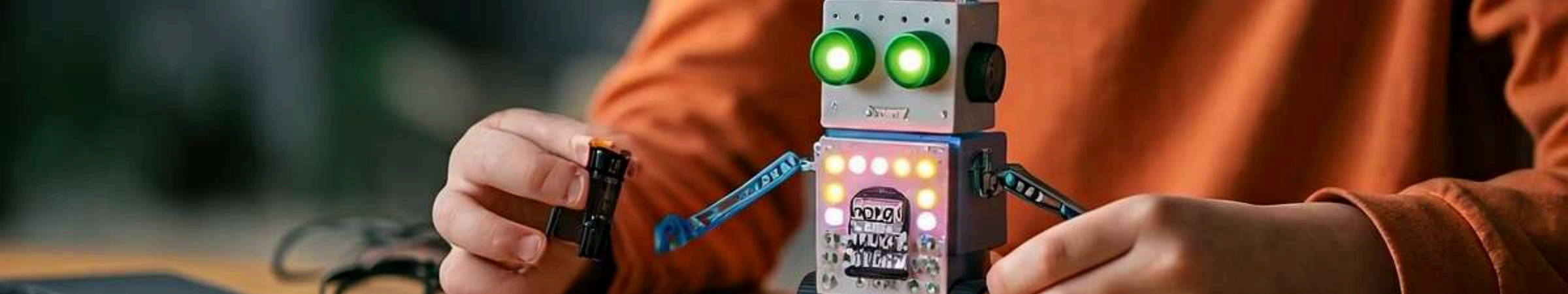
Day 5-6: Smart Sidekick Creation

1 **Multimodal Integration**

Combine voice and gesture recognition

Create fun interactions like "wave to say hi"

2 **Personality Design**
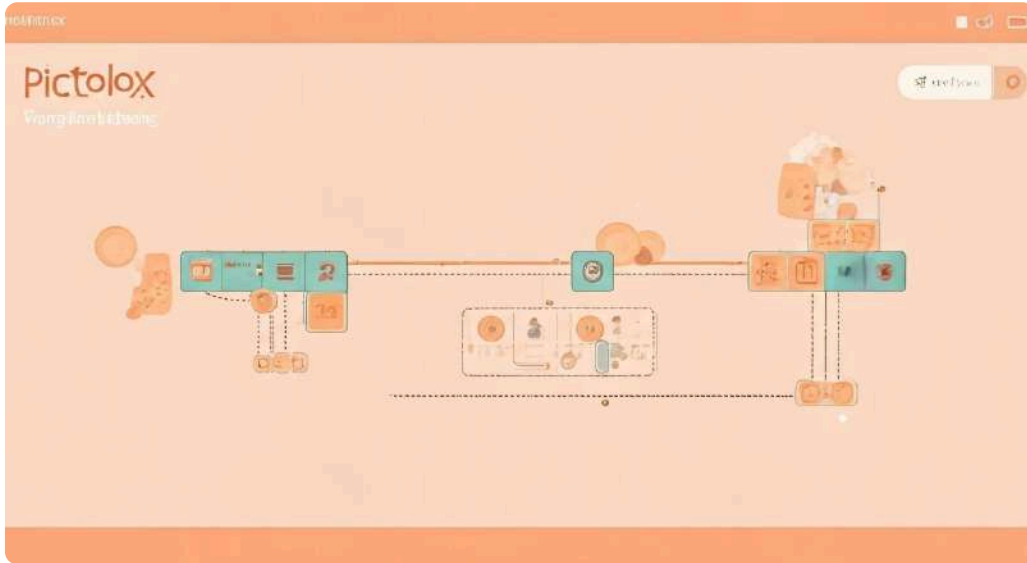
Build character with unique responses

Add expressions and reactions

3 **Technical Assembly**

Connect motors, lights, speakers

Design interaction logic flow

Day 7: Dive into Pictoblox

New Platform, New Possibilities

- Train face detection models
- Create object tracking programs
- Build interactive smile counters
- Compare with Teachable Machine

Day 8: AI Playground & Showcase

Test & Remix

Try friends' creations

Collaborate on improvements

Fun Awards

Silliest Bot

Most Polite Bot

Celebration

Group photos with creations

Share accomplishments

What Your Child Will Gain

AI Knowledge

Train models for images, voice, emotions

Coding Skills

Block-based programming experience

Creative Building

Design and construct working robots

Collaboration

Problem-solve with peers

Confidence

Complete showcase-worthy project