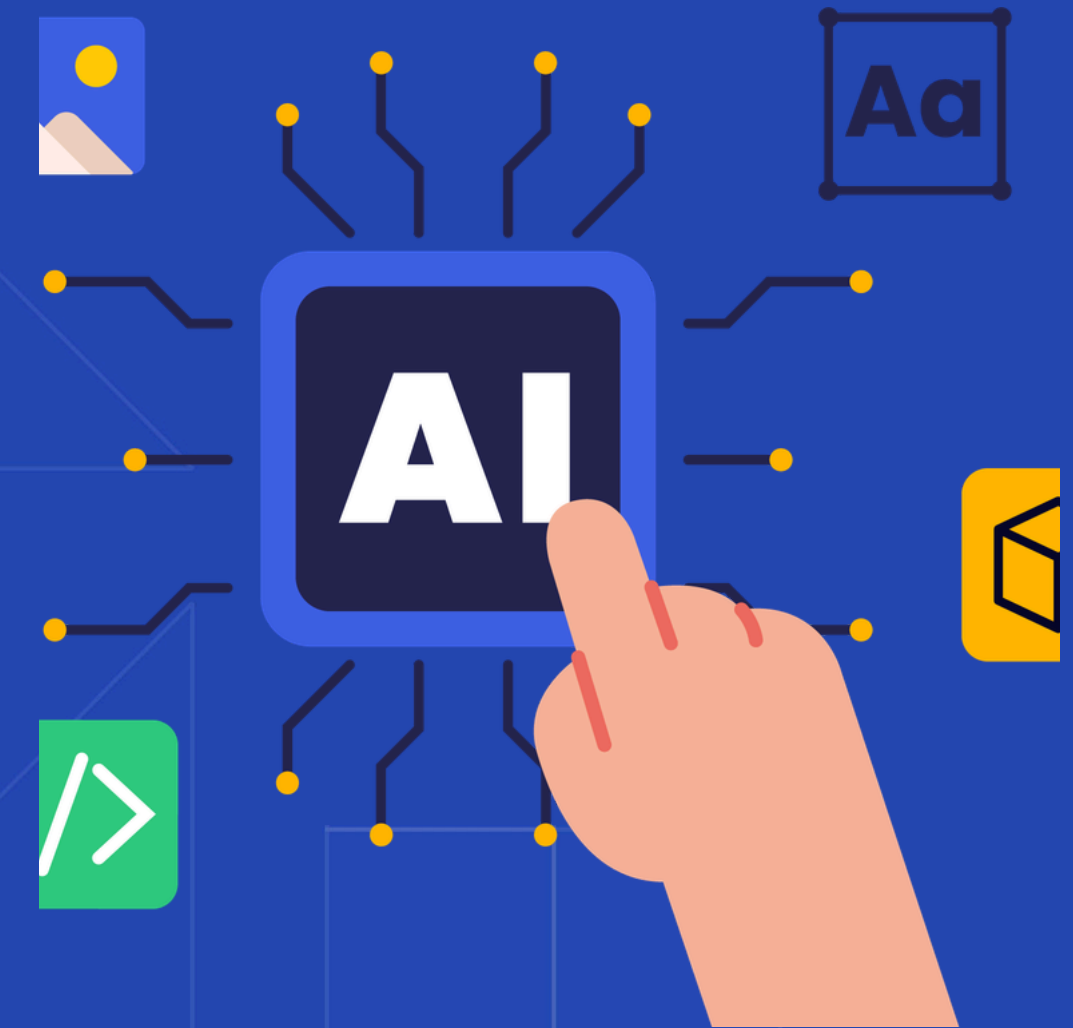




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SenseTime AI Discovery

Build, Code, Create - Hands-On AI Experiences @Shenzhen

About SenseTime

SenseTime is a global AI leader and China's first national AI platform for "intelligent vision".

It published China's first national AI textbook series — now used in over 1,000 schools worldwide and translated into multiple languages.

Its AI curriculum is trusted by educators globally, making complex AI concepts accessible, hands-on, and classroom-ready.

Why bring students here?

It is a rare chance for students to experience, not just hear about, the same AI technologies shaping their future — from computer vision to AIGC — in a working innovation centre.



Half-Day

- Metaverse - My AR World
- Smart Car Programming
- AIGC - AI Call to Magic
- The Art of Asking Questions
- Robot Claw
- NFT Designer

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Multi-Day

- Robotic Guide Dog
- Mind Reader Detective
- AIGC Creation Camp
- Smart Robot & Metaverse Camp



Metaverse - My AR World (4 hours)

What students do:

- Learn the principles of augmented reality (AR) - how digital objects interact with the real world
- Explore various AR applications through hands-on experiences
- Use an iPad to create their own AR artwork

Activity goal:

Understand AR technology and applications, develop creativity and imagination through hands-on creation.

Target age: 7-16 years (AI beginners welcome)

Tools provided: iPad per student



Includes 2-hour AI Discovery Centre tour: Guided tour featuring 20+ interactive exhibits — including computer vision, speech recognition, intelligent driving, smart cities, and AIGC.

Smart Car Programming (4 hours)

What students do:

- Learn coding basics - then see your code come to life in a physical car
- Program a smart car to complete real track missions - different code = different outcomes
- Work in pairs - one car, one computer, real teamwork and problem-solving

Activity goal:

Programming - from zero to controlling your own smart car.

Target age: 7-15 years (AI beginners welcome)

Tools provided: Smart car + computer (2 students per set)

Take-home: Customised tour badge and car badge



Includes 2-hour AI Discovery Centre tour: Guided tour featuring 20+ interactive exhibits – including computer vision, speech recognition, intelligent driving, smart cities, and AIGC.

AIGC - AI Call to Magic (4 hours)

What students do:

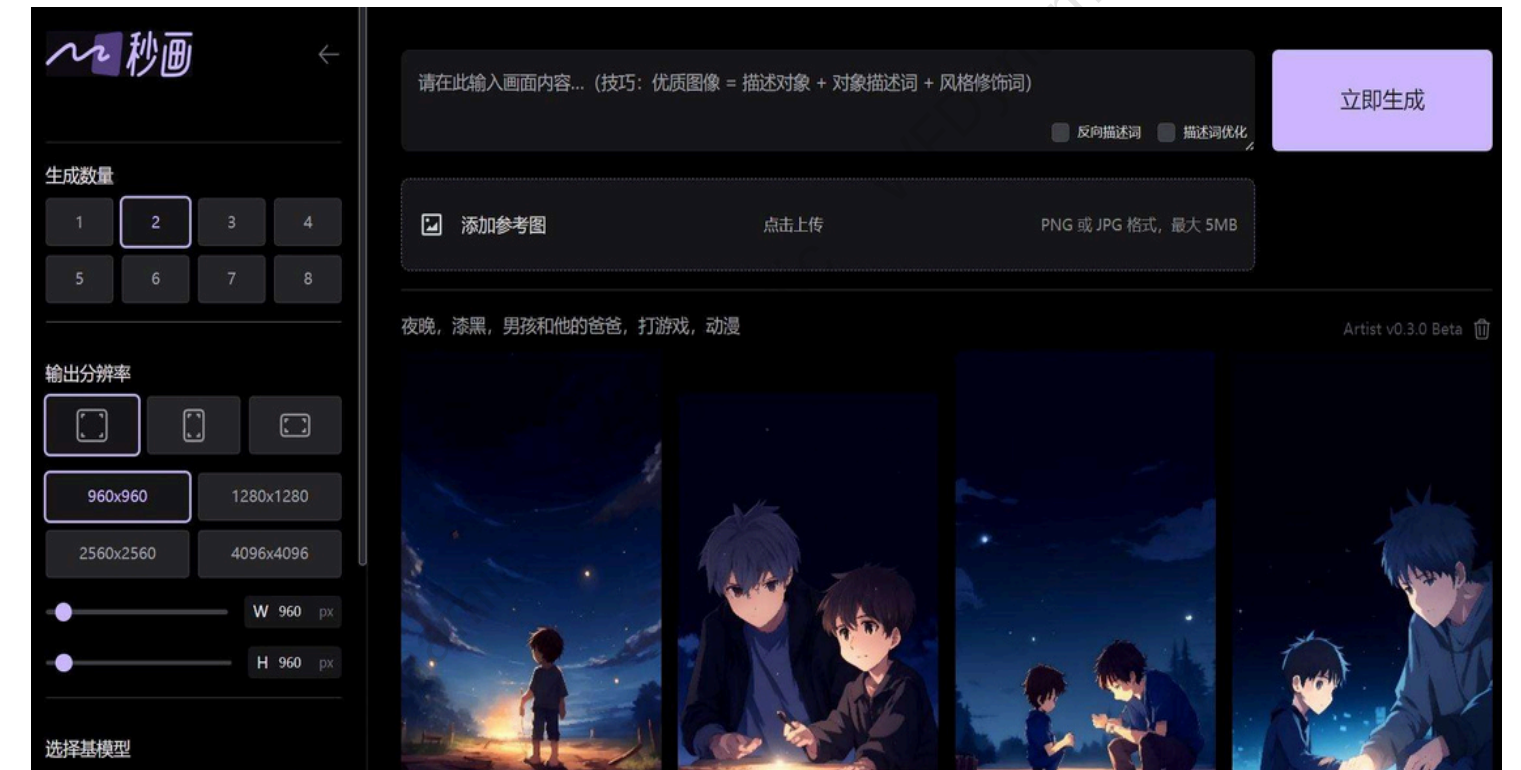
- Discover AIGC - what it can do now and where it's heading
- Use AI to create - generate original digital artwork with professional AIGC tools
- Think like a creator - blend AI with art to express ideas in new ways
-

Activity goal:

Master AI content creation tools - create your own AI-generated artwork.

Target age: 7-15 years (AI beginners welcome)

Tools provided: One computer with AIGC software per student



Includes 2-hour AI Discovery Centre tour: Guided tour featuring 20+ interactive exhibits — including computer vision, speech recognition, intelligent driving, smart cities, and AIGC.

Greeting Robot (5 hours)

What students do:

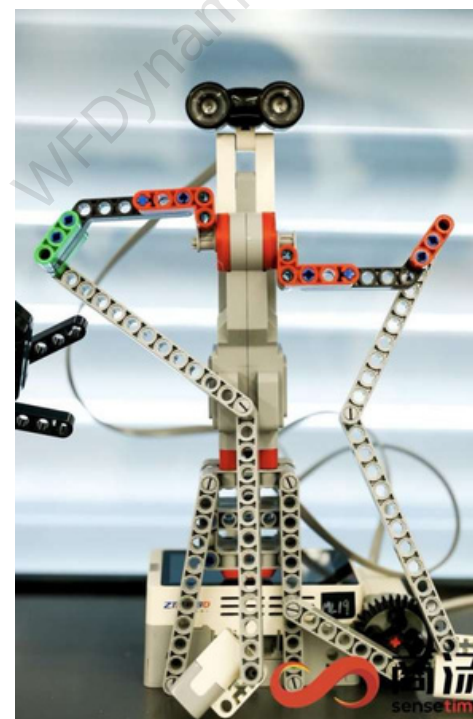
- Build a greeting robot - use programming tools to construct and assemble a functional robot
- Train an AI model - understand gradient descent and basic AI training concepts
- Write an inquiry report - receive professional guidance to complete a comprehensive research report

Activity goal:

A complete AI project cycle - from hardware construction to model training and reporting.

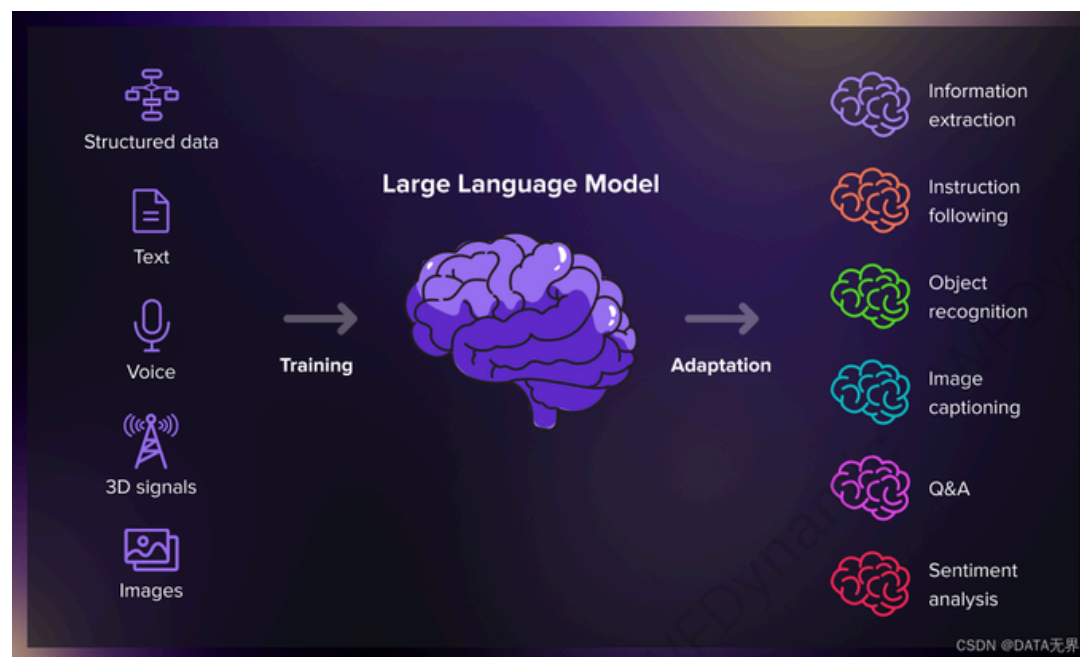
Target age: 12-18 years (basic coding recommended)

Duration	Activity
1 hour	AI fundamentals session + AI experience centre tour
1 hour	Build and program the greeting robot (basic setup)
1 hour	Lunch break
0.5 hour	Complete robot programming tasks
0.5 hour	Exhibition hall walkthrough
1.5 hours	Data collection, model training, and testing
0.5 hour	Report Q&A and final wrap-up



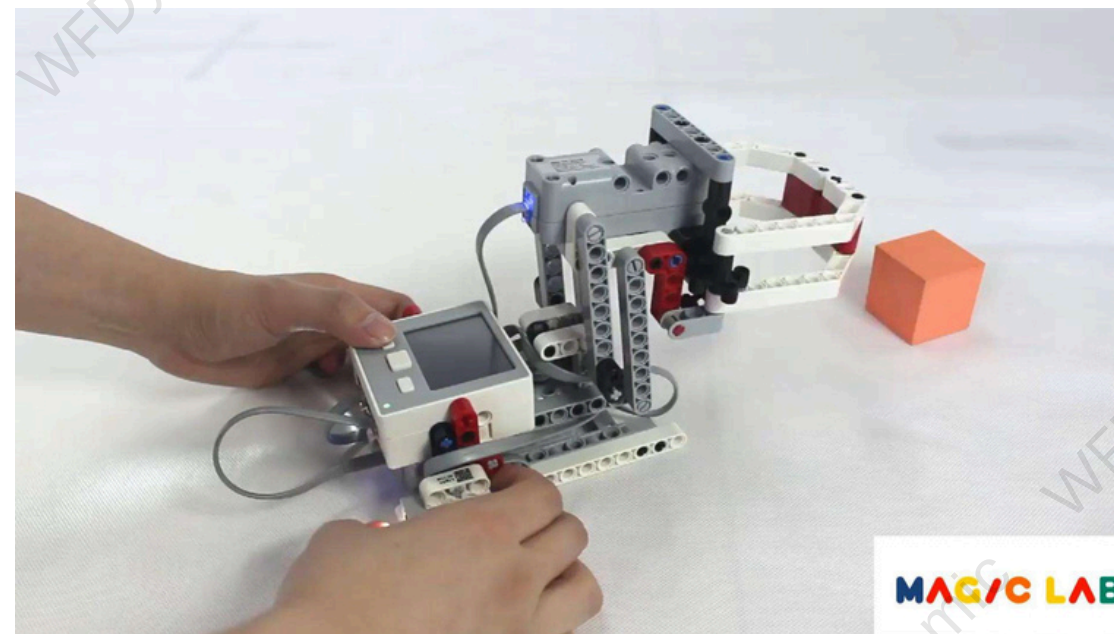
Additional themes available upon request

The Art of Asking Questions



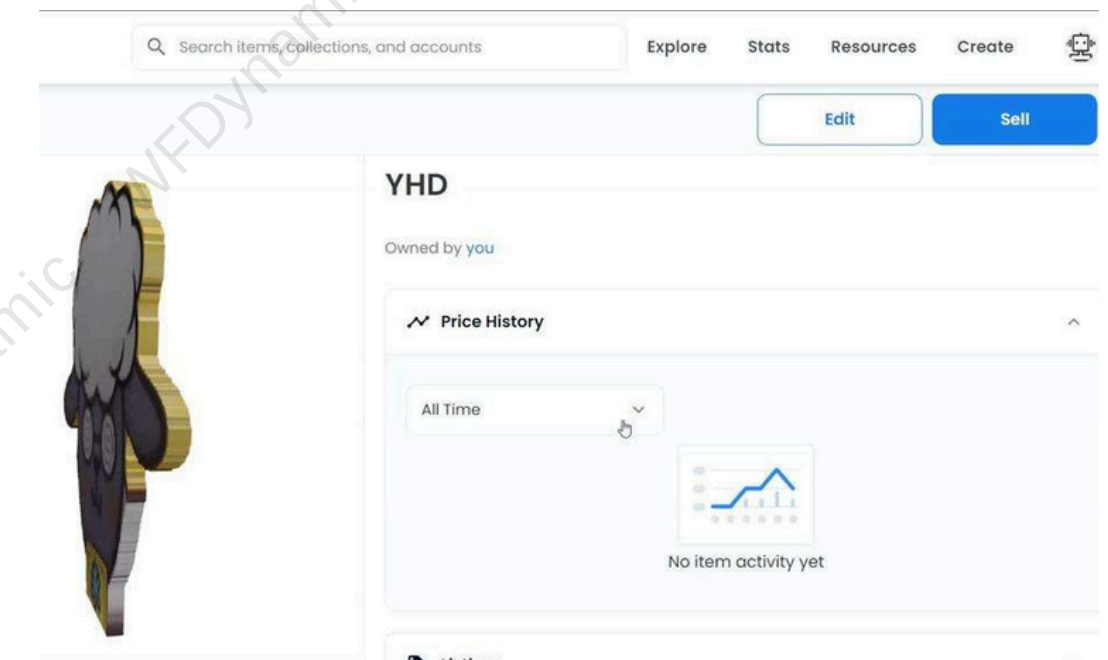
How large language models work + mastering prompt techniques

Robot Claw



Build a programmable claw using coding tools - complete a resource-grabbing mission

NFT Designer



The story of NFTs - create and upload your own digital collectible

Multi-Day Program - Robot Guide Dog

Based on real-world needs of the visually impaired, students go from 0 to 1 - using AI to design a robotic guide dog.

What students do:

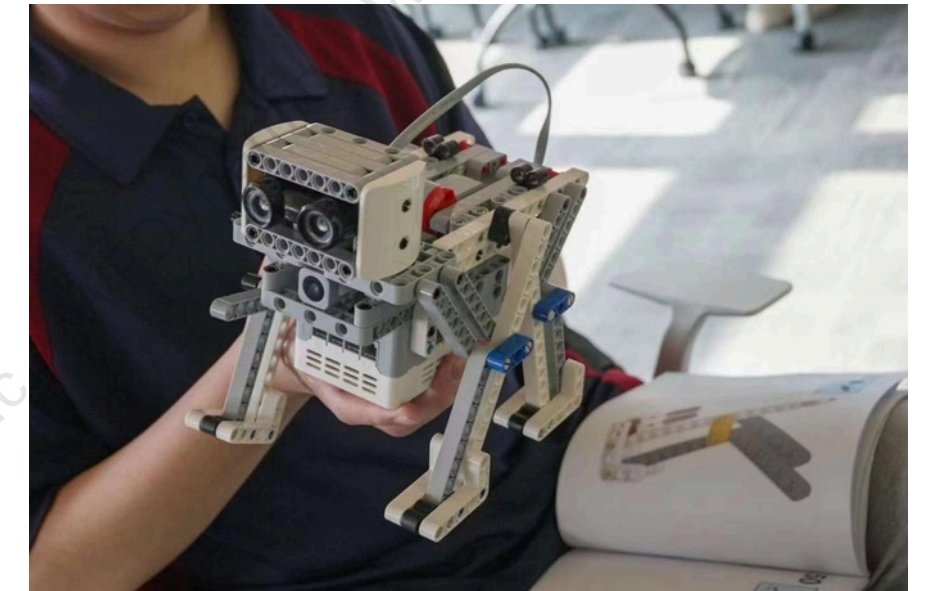
- **Learn Python programming and machine learning algorithms**
- **Use SenseTime's self-developed SenseStorm3 robotics kit**
- **Build hardware and write code for a robotic guide dog that:**
 - **Collects environmental data via sensors and cameras**
 - **Analyses surroundings using AI models**
 - **Provides navigation reminders through movement and voice**

Duration: 3-5 days

Target age: 12-18+ years (Python recommended)

Team size: 3 students per group - project-based learning

Optional add-on: 1-on-1 internship interview simulation (15 min per student)



Robot Guide Dog - Sample Daily Breakdown

Day	Session	Activity
Day 1	Morning	AI fundamentals + deep dive tour of SenseTime
	Afternoon	Python basics – image processing
Day 2	Morning	Hands-on lab – AI first experience
	Afternoon	Shang Xiaoming robotics kit – function exploration
Day 3	Morning	Project kick-off
	Afternoon	AI robot structure design + API integration
Day 4	Morning	Train an AI model from scratch
	Afternoon	Make the robotic guide dog smarter
Day 5	Morning	Project optimisation and presentation preparation
	Afternoon	Robotic guide dog project presentation and Q&A



Schedule can be adjusted based on group needs.

Multi-Day Program - Mind Reader Detective

Young detectives solve a mystery through AI-powered challenges — from face detection to robotics — uncovering clues, identifying suspects, and retrieving a missing gemstone. It's hands-on, team-based, and designed so students learn without even realising it.

What students do:

- Learn AI fundamentals: face landmark detection, emotion recognition, and machine learning basics
- Build and program a robotic arm
- Decode messages using binary conversion and Morse code
- Complete team challenges with AI games and interactive exhibits

Duration: 3-4 days

Team size: 2 students per group, 5-6 students per team

Target age: 7-12 years (AI beginners welcome)



Mind Reader Detective - Sample Daily Breakdown

Day	Theme	Key Activities
Day 1	Detectives Assemble	– AI fundamentals session – Team formation and role assignment – Create detective digital avatar – Name relay game (red clue card)
Day 2	Identity Revealed	– Machine learning basics – Run-length encoding challenge (suspect photo revealed) – Binary conversion challenge – Facial landmark detection tool
Day 3	Retrieve the Treasure Chest	– Robotic arm introduction, assembly, and programming – Morse code decoding – Treasure chest retrieval mission
Day 4	Final Chapter	– AI mind-reading challenge – Treasure chest decoding task – Q&A with large language model – Certificate ceremony + final presentation



Schedule can be adjusted based on group needs.

Multi-Day Program - AIGC Creation Camp

Students become AI creators - using text, images, and voice to produce their own digital story. Over four days, they explore AI tools and walk away with a personalised portfolio.

What students do:

- **Use SenseTime's own AI tools: SenseChat (large language model), Miaohua (AIGC image generation), and Ruying (digital human creation)**
- **Write poems and stories with AI assistance**
- **Generate original artwork from text prompts**
- **Record a digital avatar that talks and moves**



Duration: 4 days (customisable)

Target age: 8-14 years (AI beginners welcome; basic computer skills recommended)

AIGC Creation Camp - Sample Daily Breakdown

Day	Theme	Key Activities
Day 1	Meet AI	– AI fundamentals lecture – Introduction to AI-driven portrait technology – Programming-related board game
Day 2	Talk to AI	– How AI understands language – How AI writes – text generation experiment – What AI hears – listening experiment – AI voice conversion experience
Day 3	AI as Artist	– Secrets of AI painting – Imitation creation experiment – Text-to-image and image-to-image techniques – Create original AI artwork
Day 4	My Digital Human	– The art of asking questions (prompt writing) – Create and record your own digital human – Certificate ceremony



Schedule can be adjusted based on group needs.

Students go from zero to robot creator — building multiple robot models, programming movement and perception, and competing in final challenges.

What students do:

- **Build and program: biped robot, smart robotic dog, AI Mars rover, and robotic arm**
- **Control robots with facial expressions (smile detection), gesture recognition, and obstacle avoidance**
- **Complete missions: drive along a black line, identify mineral types, and more**

Duration: 4 days (customisable)

Tools: SenseStorm3 - SenseTime's official AI robotics kit

Target age: 8-14 years (AI beginners welcome; Python or robotics experience helpful but not required)



Smart Robot & Metaverse Creation Camp - Sample Daily Breakdown

Day	Theme	Key Activities
Day 1	Robot Foundations	– AI fundamentals session – Opening ceremony – Camp exploration activities
Day 2	Hardware & Control	– Introduction to SenseStorm3 hardware and software – Smile-controlled robot movement – Program a robotic arm – Identify mineral types using custom code
Day 3	Biped Robot & Obstacle Avoidance	– Build a biped robot – Program obstacle avoidance for the biped robot
Day 4	Robotic Dog & Showcase	– Build a smart robotic dog – Program gesture recognition for the dog – Final project debugging and showcase – Certificate ceremony



Schedule can be adjusted based on group needs.



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Thank you!

For school programmes, collaborations, or future visits, please reach out.

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