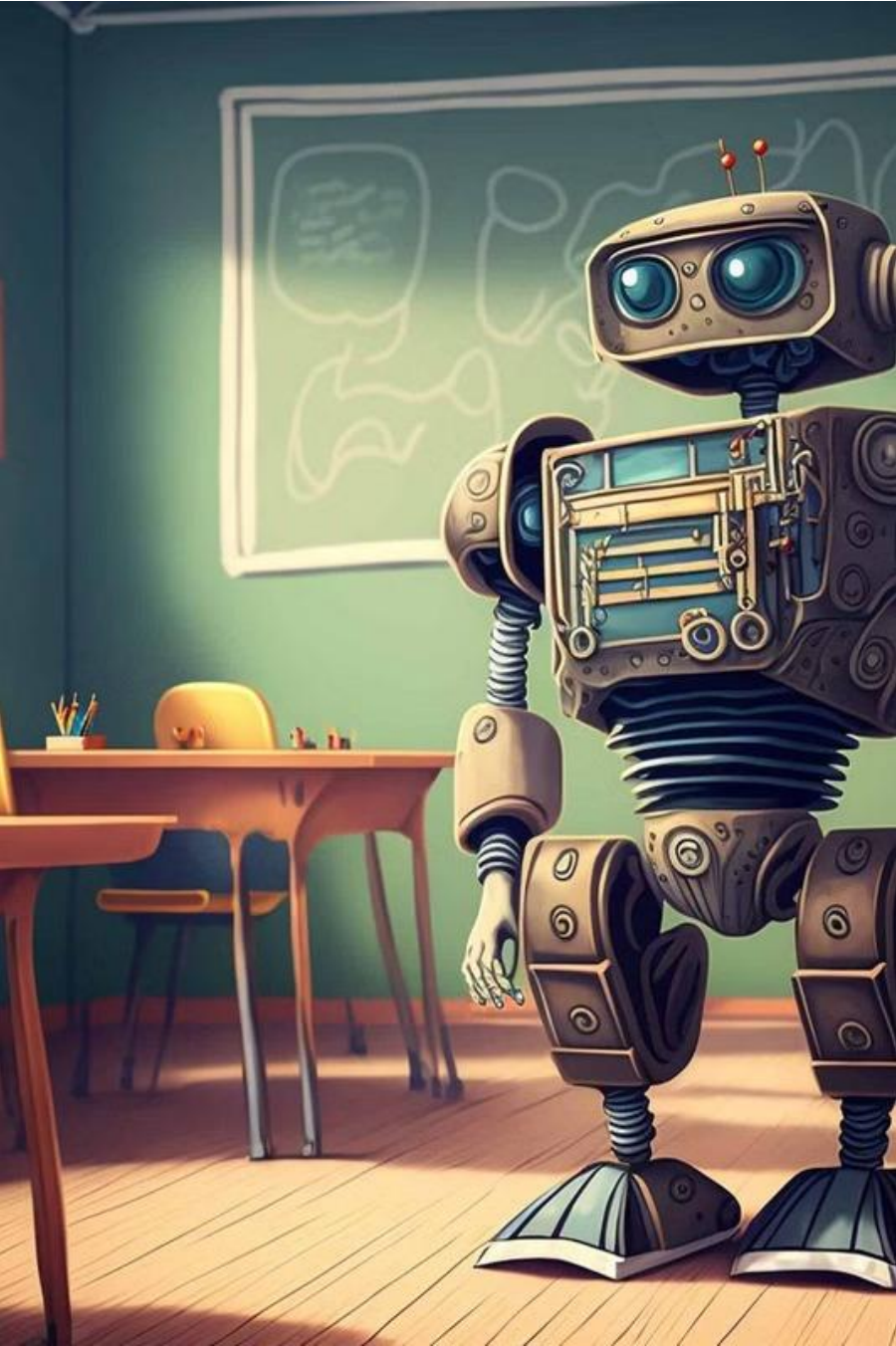




EASYSKILLS Academy

Children's online programming academy





Introduction to Neural Networks for Teens

Explore AI and Machine Learning in a fun, accessible way for ages 12- 17.



Course Goals

Understand AI Basics

Learn what Artificial Intelligence and Neural Networks are.

Recognize Patterns

Discover how machines identify images, sounds, and text.

Train AI Models

Use tools like Teachable Machine and RunwayML for hands-on learning.

Discuss Ethics

Explore fairness, bias, and responsibility in AI.

Course Structure



12 Weekly Lessons

One lesson per week for steady learning.



Project-Based

Hands-on activities to apply AI concepts.



Tools Used

Teachable Machine, RunwayML, Scratch AI Extensions, Canva AI.



Optional Python

Advanced track for coding enthusiasts.



Lesson 1-3: Foundations of AI

Lesson 1

What is Artificial Intelligence? A fun introduction.

Lesson 2

Understanding Machine Learning: How machines learn.

Lesson 3

Introduction to Neural Networks: Neurons and layers.





Lesson 4-7: Hands-On AI Projects

1

Lesson 4

Train a simple model with Teachable Machine.

2

Lesson 5

Computer Vision: AI recognizes images.

3

Lesson 6

Natural Language Processing: AI understands text.

4

Lesson 7

Build a custom image recognition project.





Lesson 8-9: Creative and Ethical AI

Lesson 8

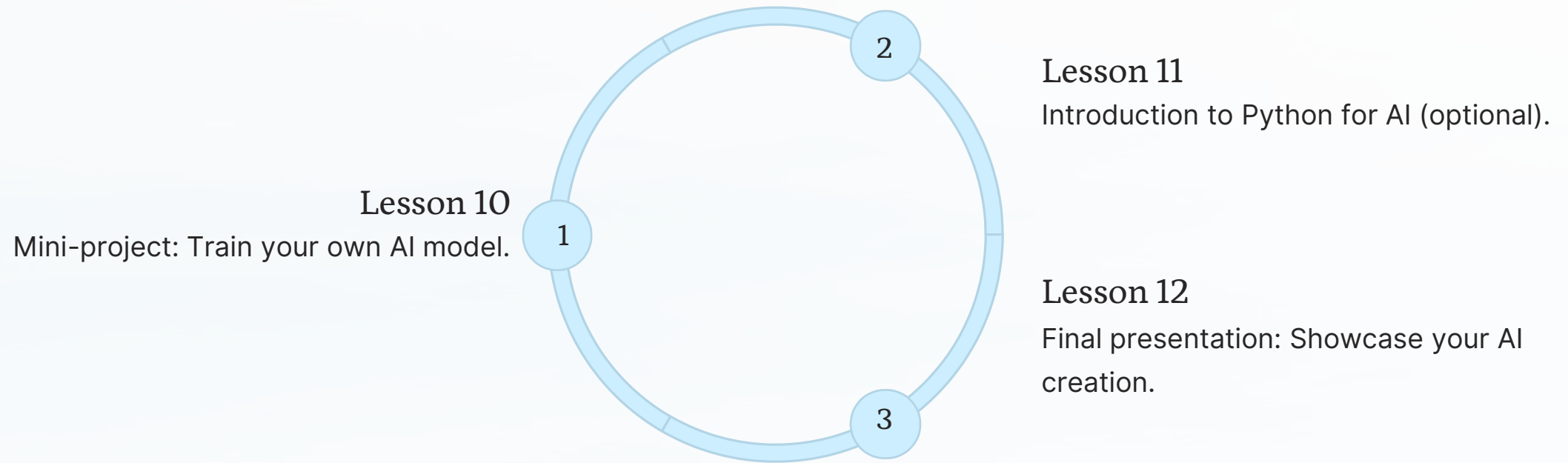
Create art with generative AI (DALL·E basics).

Lesson 9

Discuss ethical issues: bias and responsibility in AI.



Lesson 10-12: Projects and Advanced Learning



Tools and Platforms



Teachable Machine
Easy AI model training for beginners.



RunwayML
Creative AI tools for projects.



Scratch AI Extensions
Visual coding with AI features.



Canva AI
Design and AI-powered creativity.





Why This Course Matters



Build Future Skills

Prepare for careers in AI and technology.



Encourage Creativity

Use AI to create art and projects.



Promote Ethical Awareness

Understand AI's impact on society.

