



GRADE 7-10

TRAIN REAL AI MODELS

AI for Kids

Course Snapshot

DURATION

45 Days

CLASSES

45 Classes (1/day, 60 min)

FORMAT

Live Online & In-Person (Kathmandu)

BATCH SIZE

Maximum 8 Students

PLATFORM & TOOLS

Teachable Machine · Scratch AI Extensions · Python (scikit-learn)

DEVICE NEEDED

Laptop or Desktop, Webcam & Stable

CERTIFICATE

YCA AI Completion Certificate

Our Teaching Approach

- Live, instructor-led classes that move step by step from no-code tools to real Python machine learning.
- Hands-on practice every session, with every topic paired with a fun coding activity.
- Project-based learning, with eight real AI projects your child trains and keeps.



SYLLABUS

AI for Kids

45 days · 7 modules · 1 class a day, from AI basics to an independent final project.



MODULE 1 Introduction to AI

Day 1–8

DAY	TOPIC	FUN ACTIVITY
1	What is AI? Where Do We See It Every Day?	"Spot the AI," Find AI in Apps Around the House
2	How Computers "Think" vs How Humans Think	Human vs Robot Decision Game
3	Types of AI (Rules-Based vs Learning-Based)	Sorting Hat Challenge
4	Data, the Fuel of AI	Data Detective Game
5	Introduction to Machine Learning	Teach the Robot a Trick
6	AI Ethics and Bias (Kid-Friendly Intro)	Fair or Unfair? Card Game
7	Tools We'll Use (Scratch AI Extensions, Teachable Machine)	Explore the AI Playground
8	Module Challenge Day	AI Trivia Quiz

MODULE 2 Training Your First AI Model

Day 9–15

DAY	TOPIC	FUN ACTIVITY
9	Introduction to Teachable Machine	Train a "Thumbs Up / Thumbs Down" Model
10	Image Data Collection	Build Your Own Image Dataset
11	Training an Image Classifier	Cat vs Dog Classifier
12	Testing and Improving Accuracy	Model Accuracy Challenge
13	Sound-Based AI Models	Clap vs Whistle Detector
14	Pose and Gesture Recognition	Simon Says AI Game
15	Project, Custom Teachable Machine App	Showcase Your Trained Model

MODULE 3 Machine Learning with Python

Day 16–23

DAY	TOPIC	FUN ACTIVITY
16	Python Refresher for AI (Variables, Lists)	Quick Python Warm-Up
17	Introduction to Datasets (Rows and Columns)	Build a Class Survey Dataset
18	Introduction to scikit-learn	First Prediction Program
19	Training a Simple Prediction Model	Predict the Number Game
20	Classification vs Regression (Kid-Friendly)	Sort or Predict? Challenge
21	Rock-Paper-Scissors AI Logic	Beat the Learning Robot
22	Improving the Model	Accuracy Tug-of-War
23	Project, Rock-Paper-Scissors AI	Class AI Tournament

MODULE 4 Computer Vision

Day 24–29

DAY	TOPIC	FUN ACTIVITY
24	How Computers "See" Images	Pixel Detective
25	Face and Object Detection Basics	Find the Face Game
26	Emotion Detection Concepts	Guess the Emotion Challenge
27	Building an Emotion Detector	Live Emotion Mirror
28	Fun with Filters and AI Effects	Snapchat-Style Filter Fun
29	Project, Emotion Detector App	Emotion Detector Demo Day

MODULE 5 AI That Talks: NLP & Chatbots

Day 30–35

DAY	TOPIC	FUN ACTIVITY
30	How Chatbots Understand Language	Human Chatbot Roleplay
31	Building a Rule-Based Chatbot	Create a Joke-Telling Bot
32	Adding Smarter Responses	Upgrade Your Bot
33	Text Prediction and Auto-complete	Finish My Sentence Game
34	Chatbot Personality Design	Give Your Bot a Character
35	Project, Chatbot Buddy	Chatbot Conversation Contest

MODULE 6 Generative AI & Recommendations

Day 36–41

DAY	TOPIC	FUN ACTIVITY
36	What is Generative AI?	AI Art Gallery Walk
37	Creating AI-Generated Art	Design Your Own AI Artwork
38	AI Music and Story Generation	AI Story Starter Game
39	How Recommendation Systems Work	"If You Liked This, You'll Like..." Game
40	Building a Simple Recommendation Engine	Movie Match Program
41	Project, Recommendation Engine	Recommend-a-Thon

MODULE 7 Final Project & Showcase

Day 42–45

DAY	TOPIC	FUN ACTIVITY
42	Planning Your Final AI Project	Final Project Brainstorm
43	Building the Final Project	Build Day, Guided Support
44	Testing, Fixing and Polishing	Bug Hunt and Final Touches
45	Final Project and Graduation	Certificate Ceremony, AI Showcase, Student Presentations

DAY 45 - GRADUATION

A Trained Model, A Certificate, A Showcase

Every student graduates with an original AI project of their own, designed solo and combining data, training, and prediction, presented at a certificate ceremony and student showcase.

