

AI BASICS
WITH
SCRATCH

AGES 11 TO 13

AI
COURSE

	Theme	Learning Objectives
1	Fundamentals of Scratch-4-AI extensions (S4AIWS)	Explore the features in the S4AIWS platform & learn to create AI enabled applications using the block based programming.
2	Create an AI Facial Security System	Students will use the 'Face Mesh' AI extension to create a face recognition security system.
3	Create an AI Smart Home Assistant	Students will build an AI home automation system using the 'Machine Learning' AI extension to create a text-based machine learning model.
4	Create an AI Image Classification program	Students will build an image based machine learning & classification model using the 'Image Classification' AI extension.
5	Create an AI Posenet program	Students will create a posenet vision estimation model to follow the nodal points on the body.
6	Capstone Project	Design & work on a project using the PBL {Project Based Learning Framework} that applies AI to solve a problem. Instructors will guide the students using the Design Thinking philosophy.