Machine Learning For Kids :: Teachers notes	
Worksheet	Emotions
Activity	Make a phone in 'Scratch' that can only be unlocked only if it recognises
	the entitled user.
Objective	Teach the computer to recognise facial expressions
	 Learn to train your computers to recognise emotional tone
	• Learn how supervised learning builds systems can deal with unexpected
	inputs
Difficulty level	Beginner
Time estimate	45 minutes
Summary	Students will train a machine learning model to recognise facial
	expressions by first clicking their pictures with different expressions
	through the computer's webcam and upload it on 'Scratch'. The machine
	will soon start to react to picture based on the emotions it was exposed to.
Topics	sentiment analysis, supervised learning
	Setup
Each student wil	l need:
Print-outs	Project worksheet (downloaded from
	https://happymongo.com/MIKids/worksheets.jsp)
	Blocks in Scratch scripts are colour-coded, so printing in colour will make
	it easier for students to relate
Access	Username and password for <u>happymongo.com/MIKids/</u>
Guide	
Tips	Younger students may get carried away when feeding in insults to train the machine learning model. It may be helpful to set boundaries for what language is appropriate.
	 Time management is important for this project. Students often lose track of time while drawing and don't leave enough time for training or coding The worksheet screenshots are based on Scratch 3. Hence we
	recommend that students use 'Scratch 3'. Using 'Scratch 2' may make it harder for students to find some blocks.
	Student's identity would remain safe as they will be using a secure site and will be stored only till the project is active
	 Recommend to seek parental permission before running this activity "<u>https://happymongo.com/MIKids/</u>" is a long URL. So we recommend you to set up a bookmark for easy access