

	Introduces...	By getting kids to make a...	Teaching a machine to recognise...	What they will learn
Lesson 1: "Smart Classroom"	Confidence thresholds	Virtual Assistant	text	<ul style="list-style-type: none"> How computers can be trained to recognise the intent behind writing. The way confidence thresholds are used to handle when the machine cannot recognise the meaning. How virtual assistants (e.g. Apple Siri, Amazon Alexa, Google Home) work.
Lesson 2: "Make me happy"	Sentiment analysis	Scratch character	text	<ul style="list-style-type: none"> How computers can be trained to recognise emotional tone. How supervised learning makes it easier to build systems that have to deal with unexpected input.
Lesson 3: "Rock, Paper, Scissors"	Image recognition	Webcam game	images	<ul style="list-style-type: none"> How computers can be trained to recognise pictures. The importance of variety in training machine learning systems.
Lesson 4: "Sorting Hat"	Text classification	Harry Potter game	text	<ul style="list-style-type: none"> How computers can recognise different types of language.
Lesson 5: "Noughts & Crosses"	AI in games	Noughts & crosses	numbers	<ul style="list-style-type: none"> How machines have been taught to play games since the 1960's. Decision tree learning as a way for computers to learn how to play games.
Lesson 6: "Judge a book"	Image recognition	Scratch game	images	<ul style="list-style-type: none"> How effectiveness of a machine learning system can be measured by comparing performance against humans.
Lesson 7: "Headlines"	ML testing	Test system	text	<ul style="list-style-type: none"> How computers can be taught to recognise the source of writing How machine learning systems are tested.
Lesson 8: "Top Trumps"	Collecting training data	Scratch card game	numbers	<ul style="list-style-type: none"> How collecting training is used to make it easier to train computers than manually labelling training data. How computers can learn to play games where the correct answer cannot be known, by predicting the likelihood of each outcome.
Lesson 9: "Tourist Info"	Training bias	Holiday app	text	<ul style="list-style-type: none"> The impact of training bias on machine learning systems Ethical questions introduced by training bias in machine learning systems.