

Machine Learning For Kids :: Teachers' notes

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| Worksheet | Make Me Happy |
| Activity | Create a character in Scratch that smiles if you say nice things to it and cries if you say mean things to it. |
| Objective | Teach a computer to recognise compliments and insults <ul style="list-style-type: none"> How computers can be trained to recognise emotional tone How supervised learning builds systems that can deal with unexpected input |
| Difficulty level | Beginner |
| Time estimate | 45 minutes |
| Summary | Students will train a machine learning model to recognise compliments and insults by typing examples of kind statements and mean statements. They will use this in Scratch to make a character that reacts to messages based on sentiment. |
| Topics | sentiment analysis, supervised learning |

Setup

Each student will need:

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| Print-outs | Project worksheet (download from https://machinelearningforkids.co.uk/worksheets) Blocks in Scratch scripts are colour-coded, so printing in colour will make it easier for students. |
| Access | Username and password for machinelearningforkids.co.uk |

Class account will need:

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| API keys | Watson Conversation 1 workspace per student One "Lite" API key is free but can only be used to create 5 workspaces One "Standard" API key can be used to create 20 workspaces more detail at: https://github.com/daledane/ml-for-kids/raw/master/doc/machinelearningforkids-apikeys.pdf |
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Help

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| Potential issues | <ul style="list-style-type: none"> Younger students may get carried away when writing 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 drawing their face and don't leave enough time for training or coding. <p>General troubleshooting and help at https://machinelearningforkids.co.uk/help</p> |
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