

Machine Learning For Kids :: Teachers notes

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| Worksheet | Make me happy |
| Activity | Create a character in 'Scratch' that smiles when you say nice things to it and cries if you say mean things to it. |
| Objective | Teach the computer to recognise compliments and uncompliments <ul style="list-style-type: none">▪ 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 compliments and insults by feeding synonyms of kind words and unkind words to a character they build in 'Scartch'. This character will soon start to reacts to messages based on the emotions it was exposed to. |
| Topics | sentiment analysis, supervised learning |
| Setup | |
| Each student will need: | |
| Print-outs | <ul style="list-style-type: none">▪ 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 happymongo.com/MIKids/ |
| Guide | |
| Tips | <ul style="list-style-type: none">▪ • 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▪ "https://happymongo.com/MIKids/" is a long URL. So we recommend you to set up a bookmark for easy access |