chine Learning For Kids :: Teachers' notes
Tourist Info
Create a mobile app in Scratch that recommends tourist attractions based on people's interests.
 Teach a computer to make recommendations The impact of training bias on machine learning systems Ethical questions introduced by training bias in machine learning systems.
Intermediate It can involve a lot of typing. Although simple to implement, appreciating the objectives requires an understanding of the implications of machine learning so this is more effective as a follow-on to another project.
 1 hour (for full version of the project, where the students make more of the Scratch project) or 45 minutes (if students use the shorter-version of the project with a more pre-made Scratch file)
Students will train a machine learning model to make recommendations to holiday-makers based on their descriptions of likes and interests. They will use this in Scratch to make a mobile app. They will then be guided to make this more biased, and to consider the impact of bias in AI.
training bias, recommendations, supervised learning
Setup Setup
need:
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.
There are two versions of the worksheet – depending on the amount of Scratch coding to do.
Username and password for machinelearningforkids.co.uk
need:
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 to create 20 workspaces
more detail at: https://github.com/dalelane/ml-for-kids/raw/master/doc/machinelearningforkids-apikeys.pdf
Help
 Students will type about 25 short sentences. For some younger children, this might not be achievable in a single lesson, so you may wish to allow extra time. Alternatively, it might be better to do this as a "whole class project" (create the project yourself and tick "whole class project") so that the class only have to write 25 sentences between all of them. "https://machinelearningforkids.co.uk" is a long URL to type for some children. You may find it easier to set up a bookmark that they can click on instead. General troubleshooting and help at https://machinelearningforkids.co.uk/help