Machine Learning For Kids :: Teachers' notes

Worksheet	Titanic
Activity	Train the computer to be able to predict who survived the sinking of the Titanic.
Objective	**Teach a computer to predict outcomes** • Predictive analytics can be used to identify patterns in structured data.
Difficulty level	Beginner
Time estimate	45 minutes
Summary	Students will train a predictive model based on historical data.
Topics	predictive model

Setup

Each student will need:

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
Other	A way of creating and running Python programs

Class account will need:

API keys	None

Help

Potential issues	• "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. • The Python program that the students will create will use the third-party library "requests". There is a link on the student page to information about how to install requests, but it will be simpler if you can ensure that it's installed before beginning the class. See https://3.python-requests.org/user/install/#install for more info. General troubleshooting and help at https://machinelearningforkids.co.uk/help