machinelearningforkids.co.uk

Guide for unmanaged class accounts

1. Create an IBM Cloud account if you don't already have one
   You'll need an IBM Cloud account to set up the Watson APIs.
   If you're new to IBM Cloud, see section 1 in the step-by-step guide at
   https://github.com/IBM/taxinomitis-docs/raw/master/docs/pdf/machinelearningforkids-apikeys.pdf

2. Create Watson Assistant credentials for your group to use
   You will need to do this if you want your class to be able to do projects that recognise ***text***
   Create Assistant instances at https://console.bluemix.net/catalog/services/conversation
   If you're new to IBM Cloud, see section 2 in the step-by-step guide at
   https://github.com/IBM/taxinomitis-docs/raw/master/docs/pdf/machinelearningforkids-apikeys.pdf

3. Add Watson Assistant credentials to the tool
   You will need to do this if you want your class to be able to do projects that recognise ***text***
   Go to https://machinelearningforkids.co.uk/teacher and click the "Watson API Keys" button.
   The section "Watson Assistant" has an "Add new credentials" button. Click that, and enter the username and password for your Assistant service from step 2.
   The number of "workspaces" for the service instance you create will be the number of text machine learning models your group can have at any one time.
   You can add more if you need more for your group – go back to step 2 and repeat.

4. Create Watson Visual Recognition credentials for your group to use
   You will need to do this if you want your class to be able to do projects that recognise ***images***
   Create Visual Recognition keys at https://console.bluemix.net/catalog/services/visual-recognition
   If you're new to IBM Cloud, see section 3 in the step-by-step guide at
   https://github.com/IBM/taxinomitis-docs/raw/master/docs/pdf/machinelearningforkids-apikeys.pdf

5. Add Watson Visual Recognition credentials to the tool
   You will need to do this if you want your class to be able to do projects that recognise ***images***
   Go to https://machinelearningforkids.co.uk/teacher and click the "Watson API Keys" button.
   The section "Watson Visual Recognition" has an "Add new API key" button. Click that, and enter the API key for your Visual Recognition service from step 4.
   The number of "custom classifiers" for the service instance you create will be the number of image machine learning models your group can have at any one time.
   You can add more than one API key if you need more for your group – go back to step 4 and repeat.

6. Set up accounts for your students
   You will need to create user accounts for your students to be able to log in.
   Go to https://machinelearningforkids.co.uk/teacher and click the "Student management" button.
   Click "+ Add new student" to create user accounts. *Their password will be displayed after the account is created.*
   (Note: You don't need to use a student's real name. Generic user names like "student01" are fine.)
   There are also controls there to delete user accounts, & reset passwords if your students forget.

7. Prepare a lesson plan

Worksheets for a variety of projects are available for download.
Go to https://machinelearningforkids.co.uk/worksheets
A suggested order to try some of these worksheets is included on the following page.
Each worksheet has step-by-step instructions, and is a complete project to demonstrate an aspect of machine learning.
Some of the projects include a template Scratch project file – these are available for download alongside the worksheet PDFs.

8. Try the worksheets out for yourself

Your admin log on will also let you create projects yourself.
Go to https://machinelearningforkids.co.uk/projects
Follow the instructions from one of the worksheets

9. Check your group settings

Your group will have a number of limits set.
Go to https://machinelearningforkids.co.uk/teacher and click the "Restrictions" button.
There will be a limit on the number of machine learning models your group can create at any one time. Models will automatically expire to help stop you exceeding this. The expiry time will be shown in the restrictions list.

10. If you run into any problems…

If something goes wrong, check the list of known problems.
Go to https://machinelearningforkids.co.uk/help
Review the problems I currently know about, and what you can do to avoid them.
If you've found a problem I don't know about, it might be worth refreshing your page. It's cliched, but that can work.
If you're still stuck, please let me know. Contact details are on the Help page.