



# **AI & Machine Learning**

## **Lesson 18**

### **Survey Data in AI Lab**

Warm Up





# Code.org

Log into Code.org

Navigate to Lesson 18 Level 1 -  
Kim's Survey

## Writing Prompt:

What are two questions on this survey that you think will be related?

You might use a sentence starter like “I think people who answer ... would probably want to join club ...”

# **Rhetorical Question of the Day**

How can I import data into AI Lab to train a machine learning model?

Activity





# Code.org

Navigate to Code.org  
Lesson 18 Level 2 - Kim's Data



AI and Machine  
Learning

View and  
Download  
Survey Data



# Do This

Rename the headings for each column to something more descriptive. Aim to have one or two words in each column heading. Then save the file as a csv to your computer.

Once you've finished, press the Continue button in Code.org



# Code.org

Navigate to  
Lesson 18 Level 3 -  
AI Lab and Kim's Data

Upload your data to AI Lab and  
train the model from the data.



## Do This

Follow the instructions on each panel in AI Lab.

Over the course of this level, your goals are:

- Train a model with at least 70% accuracy that uses the least amount of features
- Fill out the model card and save your model

I asked people in my classes to take it and to share it with their parents and brothers and sisters. Over 100 people responded!



**Code.org, Level 3 AI Lab**

## Do This

Complete the model card, using the questions from the survey as the description for each column.

Use Kim's answer on this slide to help fill in the description

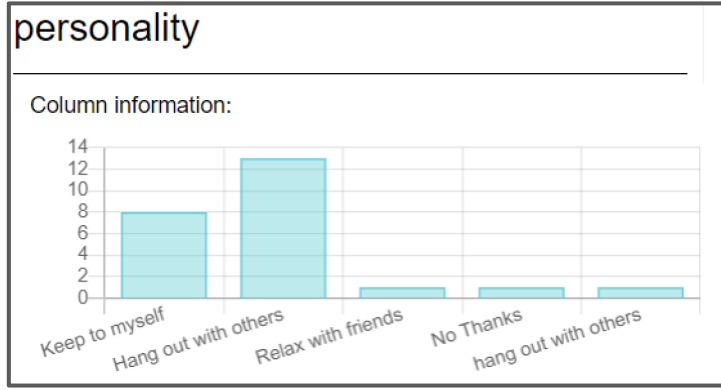
I went to my younger sister's school and made everyone in her class take the survey. Then I started looking at the results and they look kinda weird. Can you help me fix my data?



Code.org, Level 4 AI Lab

# Writing Prompt

What do you notice about Isaac's data?



minutes school

Data Type:  ▼

Column information:

min: -18  
max: 100000  
range: 100018

Code.org, Level 4 AI Lab

# Writing Prompt:

Why do you think the data ended up this way?

free time

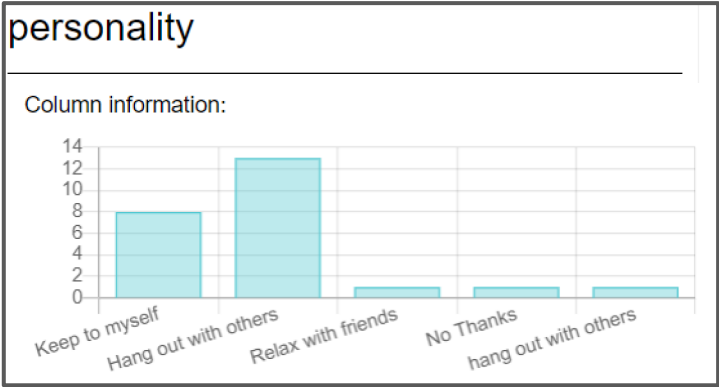
Data Type: numerical ▼

Column information:

min: -120

max: 162

range: 282



minutes school

Data Type: numerical ▼

Column information:

min: -18

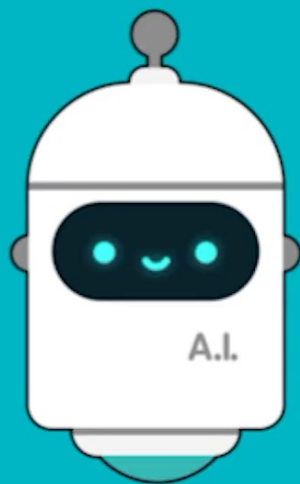
max: 100000

range: 100018



# Code.org

Navigate to  
Lesson 18 Level 4 -  
Isaac's Data



AI and Machine  
Learning

Cleaning  
Survey Data



## Do This

Fix the errors in Isaac's data so it will work with AI Lab. Once you've fixed the errors, download the file as a CSV and press the Continue button in Code Studio.

On Level 5, upload Isaac's data to AI Lab to verify that his data has been cleaned correctly.

Wrap Up





## **Writing Prompts:**

What is a situation where you think it's okay to make a change to your survey data to help clean it up?

What's a situation where you think it's not okay?



## **Question of the Day**

How can I import data into AI Lab to train a machine learning model?