Al & Machine Learning Lesson 17 Survey Planning

Warm Up



Hawa's App Idea: Club Recommender

This app asks you questions about what you're interested in, then recommends a club to join at your school. This helps with feelings of isolation because joining a club is a good way to meet people with similar interests.

Do we think this app uses data for machine learning?





The team has decided to go with the Club Recommender app. The next step is to gather the data they need to create their model. They plan to interview different people to determine what kind of club their app should recommend. What kind of questions do you think they should ask to help recommend a club to join?



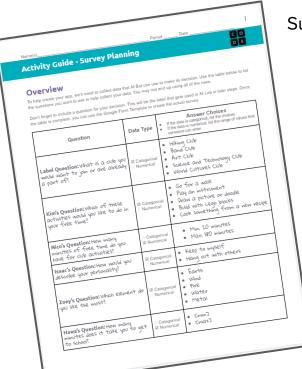
Rhetorical Question of the Day

How can I create a survey to gather data for a machine learning app?

Activity • • O



Prepare



You should have:

Survey Planning Activity Guide (on Schoology)





What is a question that you think will have a strong relationship with the label question?

Label Question: What is a club you would want to join or are already a part of?

Categorical - Numerical

Hiking Club

Band Club

Art Club

Science and Technology Club

World Cultures Club



What is a question that you don't think will have a strong relationship with the label question?

Label Question: What is a club you would want to join or are already a part of?

Label Question: What is a club you

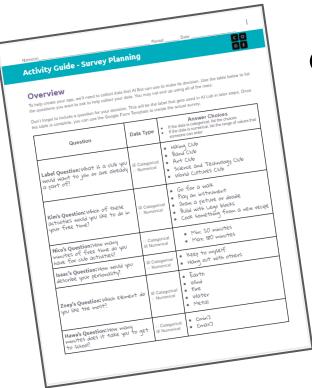
Sand Club

Art Club

Science and Technology Club

World Cultures Club





Do This

Create 3 questions of your own to include in the survey.

Mark the questions as categorical or numerical.

List the possible choices or expected range of values for the responses.



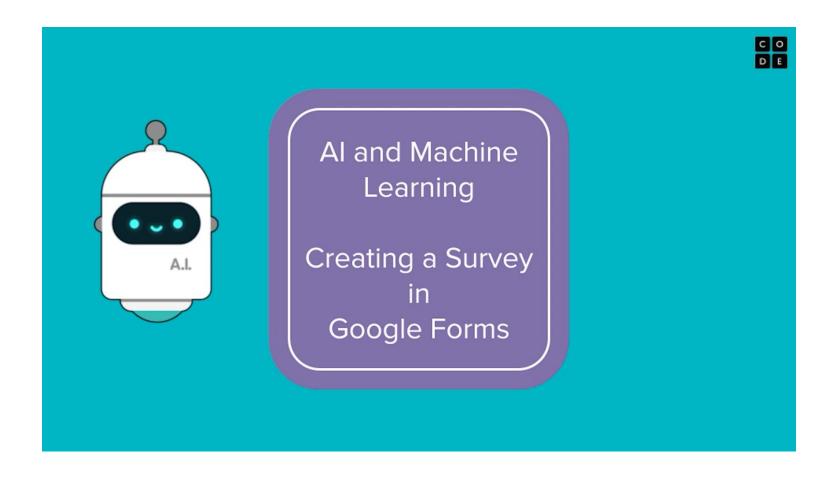


Code.org

Log into Code.org

Navigate to Lesson 17 Level 1 - Create a Google Form







Do This

Make a copy of the google form, then use the checklist on your activity guide to help keep track of your progress

Rename the form to be "Club Recommender Survey"
· · · · · · · · · · · · · · · · · · ·
Add the Label Question: What is a club you would want to join (or are already a part of)
Add [Name]'s question: Which of these would you prefer to do in your free time?
Add [Name]'s question: How much free time do you have for club activities?
Add [Name]'s question: How would you describe your personality?
Add [Name]'s question: Which element do you prefer?
Add [Name]'s question: How many minutes does it take you to get to school?
Add Your Questions



Do This

Use the Preview Button to open your form.

Have ten other students in the classroom fill it out.

View the results as they come in to start noticing trends and patterns in the data.

Wrap Up



Today in class, only the people in this room filled out the survey. Who are the other people in your community you would want to fill out this survey? What would you recommend [team name] does to make sure they have a wide range of people participate in the survey?



Question of the Day

How can I create a survey to gather data for a machine learning app?