

## Data Visualization Best Practices Workshop Teacher Report

**Name:**

Tania Sen

**Area(s) of Teaching:**

Computer Science - CS Discoveries and AP Principles

**Where You Teach:**

Juanita Sanchez Educational Complex, Providence, RI

**Please describe your activity goal:**

1. Students will be able to create a pivot table, filter and sort data
2. Students will be able to create line graphs, pie charts and bar charts.

**What is the intended visualization?**

1. Graphs and charts

**Please provide the activity wordings presented to the students:**

1. rows and columns
2. cell
3. range
4. Data Visualization
5. pivot tables and summary tables
6. line graphs, pie charts, and bar charts

**Please describe the nature of the activity (e.g. In class activity? Homework? Something else) and the rationale behind your choice.**

This activity is primarily a classwork over  $\frac{2}{3}$  days and some parts students can take as homework if they did not complete it in class.

This is a classwork activity because it needs explanation and support from the teacher given the student population.

**Were students engaged?**

I will let you know when I use this in my class.

**What is/are the dataset(s) that will be used for the activity? How will students access the dataset(s)?**

<https://www.bls.gov/cps/tables.htm#charemp>. This data set is modified in order to make it simple for students to use and learn it for the first time.

Here is the entire presentation of the topic.

## **Data Visualization**

Tania Sen

Data Science and Career Readiness Class

10th Grade

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**What tool(s) are students going to use? How will students have access to the tool(s)?**

Google sheet/ Excel

Students have Chromebooks

**How are you going to grade the activity? (e.g. Rubric)**

Using a rubric

Here is the rubric

<b>Summary Tables</b>				
<b>Name:</b>				
		<b>Points Earned</b>	<b>Possible Points</b>	<b>Feedback</b>
<b>Summary Tables</b>				
Create a pivot table as described in activity #1			10	
Create a table that displays the sum of male and female employment in activity #2			10	
Create a chart or graph of the employment in activity #2			10	
Formulate a question that can be generated using the data set for activity #3			10	
Write a paragraph about the activity			10	
<b>Total</b>			50	

**Do you think you will keep incorporating data visualization in the future?:**

Yes. I love using data visualizations in my teaching. I will try my best to incorporate that to classes that I teach. It's important to me that students understand and use visualization as an active learner. It