

## **Assignment 4: Becoming an Independent Data Scientist Example Solution**

### **1. Region and Domain**

Honolulu, Hawaii, United States.  
Economics activity or measures.

### **2. Research question.**

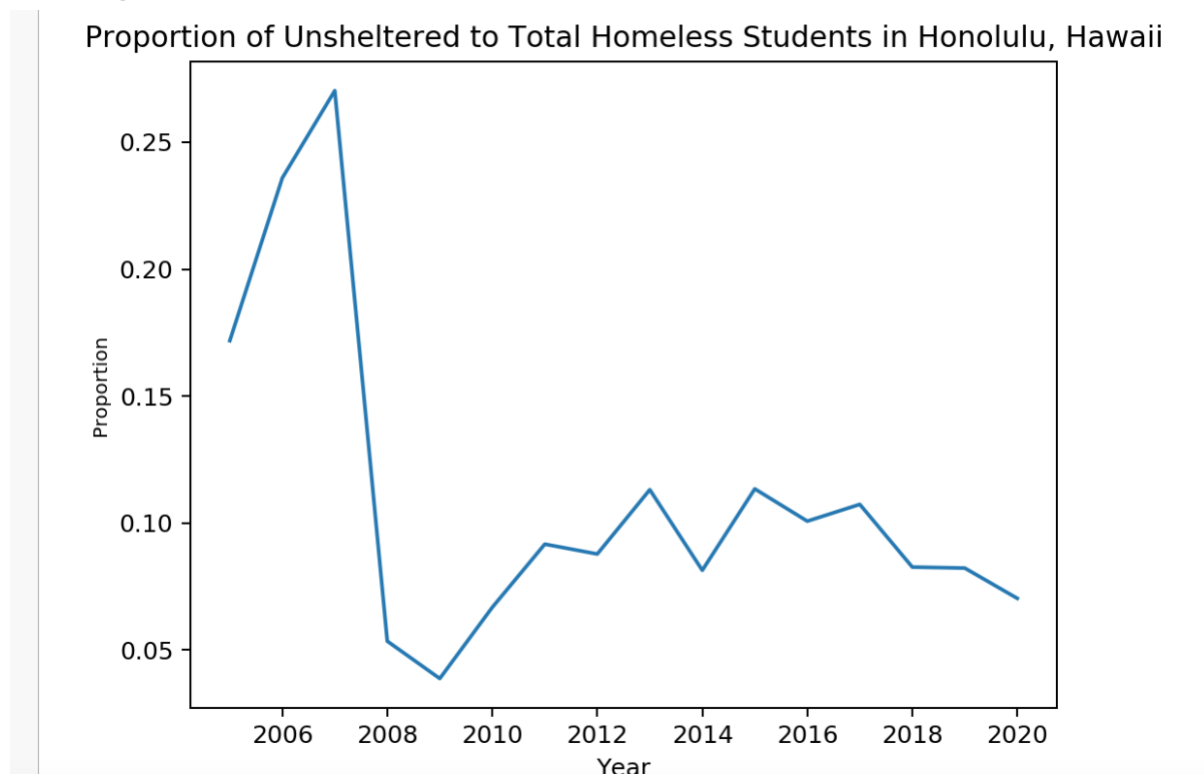
How has the ratio of unsheltered homeless students to total homeless students in Honolulu Hawaii changed over the last 16 years?

### **3. Links**

[https://opendata.hawaii.gov/dataset/homeless\\_students\\_in\\_public\\_school/resource/4a83de4b-b004-411b-bdd8-f5009741432e](https://opendata.hawaii.gov/dataset/homeless_students_in_public_school/resource/4a83de4b-b004-411b-bdd8-f5009741432e)

[https://opendata.hawaii.gov/dataset/homeless\\_students\\_in\\_public\\_school/resource/ebc89c88-5512-447b-845d-99a79b1df860](https://opendata.hawaii.gov/dataset/homeless_students_in_public_school/resource/ebc89c88-5512-447b-845d-99a79b1df860)

### **4. Image**



## 5. Discussion

This visualization was concerned with answering the question about how the proportion of unsheltered homeless students to total homeless students in Honolulu Hawaii has changed over the last 16 years. Datasets from the Hawaii government were scraped and used in this analysis. Each year from 2005 till 2020 was plotted along the x axis and each proportion for that year was plotted on the y-axis. The data shows that as time has gone on, Honolulu has indeed made an effort to shelter homeless students as the proportion has significantly decreased since 2005. The proportion stayed pretty level from 2012 to 2018 but it seems like a new downtrend has started from 2019 and on as the State has recently made a new effort to combat homelessness after the COVID-19 pandemic. The proportion is now around 0.075 and will continue to drop.