

**King Khalid University**

**Introduction to data science**

**Report**

*Implementing Python Basics for DS*

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This report contains data on cases and deaths from COVID-19 in the United States, and operations on this data on what we learned in class Introduction to Data Science.

Our notebook

Step 1

From where getting our data?There is a COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University hosted on Github.

then imported by four librarys (pandas, numpy, matplotlib..)

Step 2:

Data cleanup and transformation we used the data in California to make the data transformation run less intensively because the US has duplicate county names.

Then we added new data containing the population to compare it with our data

Revisit step 2:

including rolling averages of new cases/deaths and data per million inhabitants

Step 3 :

We created objects to represent case and death increases with a 7 day rolling average. We created objects to represent cases and death per million. We created objects to represent case and death per million increases with a 7 day rolling average. Now that we have these objects, let’s do some more plotting: