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Write-up for Pandas

Pandas is an open source library that can be used for data manipulation and analysis. It offers data structures for manipulating numerical tables and times series. It is a way to show sorted or filtered data.

There are many useful ways for using pandas one of which would be grabbing data from files. A real-world example could be an online store uses their customer order datas to get statistics on when they get more orders ,or maybe to know the best-selling products, or where most of their customers live. These kinds of information can help the success and growth of the online business by using the said information. Another practical use for pandas could be in this current pandemic the data of the sick can be curated to help pharmaceutical companies create the cure to the virus based on a variety of information like if who has recently traveled or who may have chronic illnesses that made them sicker. Having that kind of data and knowledge, organized and graphed can help aid in the direction of a cure.

Pandas has many functions such as dataframe, data filtration, reading various data file formats and many others related to extrapolating data. Dataframe can do a variety of things such as reading imported files and indexing as well as being able to merge or join with other read data files to be combined into one large dataframe that can be sorted and filtered based on how it is programmed. Data filtration is an easy step that can be done in Pandas with just one line of code and simply stating what column to filter and what data needs to be taken out. A convenient function of Pandas is the reading of various data files from formats such as csv, json, sql, and excel makes handling stored data easier. With just one read line you are able to designate the columns of data you need; you are able to control what goes into the data frame. The are many other functions of pandas that can be found in this link <https://www.dataquest.io/blog/pandas-cheat-sheet/> .